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National Nuclear Data Center, Brookhaven National Laboratory

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This document lists experimental references added to Nuclear Science References (NSR) during the period January 1, 2009 to March 31, 2009. The first section lists keynumbers and keywords sorted by mass and nuclide. The second section lists all references, ordered by keynumber.

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Keynumbers and Keywords

A=1

- ^1n 2008B032 NUCLEAR REACTIONS $^2\text{H}(e, e'p)$, E=855.11 MeV; measured σ , missing momentum, kinematic variables; deduced interference response function. Comparison with Coupled Channels Calculations. JOUR PRVCA 78 054001
- 2008KI21 NUCLEAR REACTIONS $^1\text{H}(\text{polarized } d, 2p)$, E=130 MeV; measured particle spectra, break-up cross sections. JOUR FBSYE 44 11
- 2008LA17 NUCLEAR REACTIONS $^2\text{H}(t, pt)$, (t, 2d), E=35.5 MeV; measured cross sections. $^3\text{H}(p, p)$, (p, d); deduced cross sections. JOUR FBSYE 44 353
- 2008MA52 NUCLEAR REACTIONS $^2\text{H}(p, 2p)$, E=190 MeV; measured particle spectra and correlations, cross sections and analyzing powers. JOUR FBSYE 44 49
- 2008MI26 NUCLEAR REACTIONS $^3\text{He}(e, e'2p)$, (e, e'np), E not given; measured cross sections. JOUR FBSYE 44 171
- 2008TU07 NUCLEAR REACTIONS $^2\text{H}(p, 2p)$, E=5 MeV; measured E_p , I_p , pp-coin, momentum distributions, two- and three-body σ . Trojan Horse Method. JOUR PRVCA 78 064001
- 2009PA03 RADIOACTIVITY $^1\text{n}(\beta^-)$; measured β asymmetry parameter. JOUR PRLTA 102 012301
- ^1H 2008AB23 NUCLEAR REACTIONS $^1\text{H}(p, p\pi^-\pi^+)$, E=747, 793 MeV; measured missing mass and invariant mass spectra, A_y , $A_y(\theta)$, σ , $\sigma(E)$, $\sigma(\theta)$. Comparison with other data and theory. JOUR ZAANE 37 267
- 2008MI26 NUCLEAR REACTIONS $^3\text{He}(e, e'2p)$, (e, e'np), E not given; measured cross sections. JOUR FBSYE 44 171
- 2008RA28 NUCLEAR REACTIONS $^2\text{H}(p, d)$, E=135 MeV; measured $\sigma(\theta)$, vector analyzing power. JOUR FBSYE 44 27
- 2009A001 NUCLEAR REACTIONS $^1\text{H}(^{60}\text{Cr}, ^{60}\text{Cr}')$, E=42 MeV / nucleon; $^1\text{H}(^{62}\text{Cr}, ^{62}\text{Cr}')$, E=39 MeV / nucleon; measured $E\gamma$, $I\gamma$, $\gamma\gamma$, (particle) γ -coin. ^{60}Cr ; deduced deformation length. ^{62}Cr ; deduced levels, J, π , deformation length. JOUR PRLTA 102 012502
- 2009EL03 NUCLEAR REACTIONS $^{208}\text{Pb}(^{20}\text{C}, ^{20}\text{C}')$, E=37.6 MeV / nucleon; $^1\text{H}(^{20}\text{C}, ^{20}\text{C}')$, E=41.4 MeV / nucleon; measured $E\gamma$, $I\gamma$. ^{20}C ; deduced levels, J, π , charge and neutron transition probabilities, B(E2). Comparison with shell model calculations. JOUR PRVCA 79 011302
- 2009PA03 RADIOACTIVITY $^1\text{n}(\beta^-)$; measured β asymmetry parameter. JOUR PRLTA 102 012301
- 2009YA01 NUCLEAR REACTIONS $^1\text{H}(^7\text{Be}, ^7\text{Be}')$, E=53.8 MeV; measured proton spectra, $E\gamma$, $I\gamma$, (proton) γ -coin, $\sigma(E)$; deduced astrophysical S-factor. ^8B deduced levels, J, π , resonance parameters using R-matrix analysis. Comparison with data. Secondary radioactive beam. JOUR PYLBB 672 230

KEYNUMBERS AND KEYWORDS

A=2

- ²n 2008KU19 NUCLEAR REACTIONS ²H(d, 2p), E=13, 248 MeV; measured inclusive break-up cross sections. JOUR FBSYE 44 53
- ²H 2008LA17 NUCLEAR REACTIONS ²H(t, pt), (t, 2d), E=35.5 MeV; measured cross sections. ³H(p, p), (p, d); deduced cross sections. JOUR FBSYE 44 353
- 2009K002 NUCLEAR REACTIONS ¹H(¹⁹C, ¹⁸C), E=81 MeV / nucleon; ¹H(¹⁸C, ¹⁷C), E=68 MeV / nucleon; measured E γ , I γ , σ , (particle)- γ coin, transverse-momentum distributions. ^{17,18}C; deduced levels, J, π . Comparison with continuum-discretized coupled-channel calculations. JOUR PRVCA 79 014602

A=3

- ³H 2008LA17 NUCLEAR REACTIONS ²H(t, pt), (t, 2d), E=35.5 MeV; measured cross sections. ³H(p, p), (p, d); deduced cross sections. JOUR FBSYE 44 353
- ³He 2007JAZV NUCLEAR REACTIONS ²H(polarized d, n), E=270 MeV; measured vector and tensor analyzing powers. REPT JINR-E1-2007-108, Janek
- 2008TA31 NUCLEAR REACTIONS ¹H(d, γ), E=196 MeV; measured analyzing powers. JOUR FBSYE 44 179

A=4

- ⁴He 2009OL01 NUCLEAR REACTIONS ¹H(¹⁶O, X)⁴He, E at 3.25 GeV / c per nucleon; measured cross sections. JOUR PANUE 72 77

A=5

No references found

A=6

- ⁶He 2009G001 NUCLEAR REACTIONS ³H(⁶He, p), E=25 MeV / nucleon; ³H(⁸He, p), E=27.4 MeV / nucleon; measured fragment, proton energies, (fragment)(proton)-coin and missing mass spectra; deduced σ . ^{6,8}He deduced ground state energies, E1 strength distribution. Comparison with other data and calculations. Secondary radioactive beam. JOUR PYLBB 672 22
- ⁶Li 2008CH28 NUCLEAR REACTIONS H, C(¹²Be, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ^{6,7,9}Li, ^{8,9,10}Be, ^{12,13}B; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307

KEYNUMBERS AND KEYWORDS

A=7

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|-----------------|----------|--|
| ${}^7\text{Li}$ | 2008CH28 | NUCLEAR REACTIONS H, C(${}^{12}\text{Be}$, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ${}^6,7,9\text{Li}$, ${}^8,9,10\text{Be}$, ${}^{12,13}\text{B}$; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307 |
| ${}^7\text{Be}$ | 2008C012 | NUCLEAR REACTIONS ${}^3\text{He}(\alpha, \gamma)$, E=220, 250, 400 keV; measured $E\gamma$, $I\gamma$, σ , branching ratio; deduced astrophysical S-factor. Prompt- γ technique, HPGe detector in the Gran Sasso underground laboratory. Comparison with other data. JOUR NUPAB 814 144 |
| | 2009N002 | NUCLEAR MOMENTS ${}^{7,9,10,11}\text{Be}$; measured isotope shifts; deduced nuclear charge radii. JOUR PRLTA 102 062503 |
| | 2009SA06 | NUCLEAR REACTIONS ${}^7\text{Li}$, C(p, n), E=297 MeV; ${}^{58}\text{Ni}$, ${}^{70}\text{Zn}$, ${}^{114}\text{Cd}$, ${}^{118}\text{Sn}$, ${}^{120}\text{Sn}(\text{p}, \text{n})$, E=198, 297 MeV; measured neutron TOF and $\sigma(E, \theta)$. ${}^7\text{Be}$, ${}^{12}\text{N}$, ${}^{13}\text{N}$, ${}^{58}\text{Cu}$, ${}^{70}\text{Ga}$, ${}^{114}\text{In}$, ${}^{118}\text{Sb}$, ${}^{120}\text{Sb}$; deduced B(GT). JOUR PRVCA 79 024602 |

A=8

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|-----------------|----------|--|
| ${}^8\text{He}$ | 2009G001 | NUCLEAR REACTIONS ${}^3\text{H}({}^6\text{He}, \text{p})$, E=25 MeV / nucleon; ${}^3\text{H}({}^8\text{He}, \text{p})$, E=27.4 MeV / nucleon; measured fragment, proton energies, (fragment)(proton)-coin and missing mass spectra; deduced σ . ${}^6,8\text{He}$ deduced ground state energies, E1 strength distribution. Comparison with other data and calculations. Secondary radioactive beam. JOUR PYLBB 672 22 |
| ${}^8\text{Be}$ | 2008CH28 | NUCLEAR REACTIONS H, C(${}^{12}\text{Be}$, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ${}^6,7,9\text{Li}$, ${}^8,9,10\text{Be}$, ${}^{12,13}\text{B}$; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307 |
| | 2008T016 | NUCLEAR REACTIONS H, O(${}^{12}\text{C}$, X) ${}^8\text{Be}$ / ${}^9\text{B}$, E=200-400 MeV / nucleon; measured σ . JOUR PRVCA 78 067602 |
| | 2009C001 | NUCLEAR REACTIONS ${}^{12}\text{C}(\text{p}, \text{p}\alpha)$, E=101 MeV; measured cross section and analyzing power. JOUR EULEE 85 22001 |
| | 2009PA05 | NUCLEAR REACTIONS ${}^7\text{Li}({}^7\text{Li}, {}^6\text{He})$, E=20, 25 MeV; measured $\sigma(\theta)$. Compared results to model calculations. JOUR PRAMC 72 363 |
| ${}^8\text{B}$ | 2009YA01 | NUCLEAR REACTIONS ${}^1\text{H}({}^7\text{Be}, {}^7\text{Be}')$, E=53.8 MeV; measured proton spectra, $E\gamma$, $I\gamma$, (proton) γ -coin, $\sigma(E)$; deduced astrophysical S-factor. ${}^8\text{B}$ deduced levels, J, π , resonance parameters using R-matrix analysis. Comparison with data. Secondary radioactive beam. JOUR PYLBB 672 230 |

A=9

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|-----------------|----------|---|
| ${}^9\text{Li}$ | 2008CH28 | NUCLEAR REACTIONS H, C(${}^{12}\text{Be}$, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ${}^6,7,9\text{Li}$, ${}^8,9,10\text{Be}$, ${}^{12,13}\text{B}$; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307 |
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KEYNUMBERS AND KEYWORDS

A=9 (continued)

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| ⁹ Be | 2008CH28 | NUCLEAR REACTIONS H, C(¹² Be, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ^{6,7,9} Li, ^{8,9,10} Be, ^{12,13} B; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307 |
| | 2008DE30 | NUCLEAR REACTIONS ⁹ Be(¹¹⁰ Pd, ¹¹⁰ Pd'), E=66 MeV / nucleon; ⁹ Be(¹¹⁴ Pd, ¹¹⁴ Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114} Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116} Pd, ^{104,106,108,110,112,114,116,118} Cd, ^{96,98,100,102,104,106,108,110,112,114} Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| | 2009N002 | NUCLEAR MOMENTS ^{7,9,10,11} Be; measured isotope shifts; deduced nuclear charge radii. JOUR PRLTA 102 062503 |
| ⁹ B | 2008T016 | NUCLEAR REACTIONS H, O(¹² C, X) ⁸ Be / ⁹ B, E=200-400 MeV / nucleon; measured σ . JOUR PRVCA 78 067602 |

A=10

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|------------------|----------|---|
| ¹⁰ He | 2009G001 | NUCLEAR REACTIONS ³ H(⁶ He, p), E=25 MeV / nucleon; ³ H(⁸ He, p), E=27.4 MeV / nucleon; measured fragment, proton energies, (fragment)(proton)-coin and missing mass spectra; deduced σ . ^{6,8} He deduced ground state energies, E1 strength distribution. Comparison with other data and calculations. Secondary radioactive beam. JOUR PYLBB 672 22 |
| ¹⁰ Be | 2008CH28 | NUCLEAR REACTIONS H, C(¹² Be, X), E=50 MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. ^{6,7,9} Li, ^{8,9,10} Be, ^{12,13} B; deduced levels, J, π , widths, isospins. JOUR PRVCA 78 054307 |
| | 2009HA01 | NUCLEAR REACTIONS ⁹ Be(¹⁶ O, ¹⁴ O), E=234 MeV; measured ¹⁴ O spectra, ¹⁰ Be- ¹⁴ O coin, energies and angles of ¹⁰ Be fragments, branching ratios, widths, neutron energies, neutron decay of excited states of ¹¹ Be to ¹⁰ Be. ^{10,11} Be; deduced levels, J, π . R-matrix formalism. JOUR PRVCA 79 014302 |
| | 2009N002 | NUCLEAR MOMENTS ^{7,9,10,11} Be; measured isotope shifts; deduced nuclear charge radii. JOUR PRLTA 102 062503 |
| ¹⁰ B | 2009BA06 | RADIOACTIVITY ¹⁰ C(β^+) [from ¹⁰ B(p, n), E=5.2 MeV]; measured β spectra, half-life; deduced ft value. JOUR PRVCA 79 024311 |
| ¹⁰ C | 2009BA06 | RADIOACTIVITY ¹⁰ C(β^+) [from ¹⁰ B(p, n), E=5.2 MeV]; measured β spectra, half-life; deduced ft value. JOUR PRVCA 79 024311 |

A=11

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| ¹¹ Be | 2009HA01 | NUCLEAR REACTIONS ⁹ Be(¹⁶ O, ¹⁴ O), E=234 MeV; measured ¹⁴ O spectra, ¹⁰ Be- ¹⁴ O coin, energies and angles of ¹⁰ Be fragments, branching ratios, widths, neutron energies, neutron decay of excited states of ¹¹ Be to ¹⁰ Be. ^{10,11} Be; deduced levels, J, π . R-matrix formalism. JOUR PRVCA 79 014302 |
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KEYNUMBERS AND KEYWORDS

A=11 (continued)

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| | 2009N002 | NUCLEAR MOMENTS $^{7,9,10,11}\text{Be}$; measured isotope shifts; deduced nuclear charge radii. JOUR PRLTA 102 062503 |
| ^{11}B | 2008ME15 | NUCLEAR REACTIONS ^{12}C , ^{40}Ca , ^{93}Nb , $\text{Pb}(\text{polarized } \gamma, \text{p}\pi^0)$, $E=0.6\text{-}2.2$ GeV bremsstrahlung; measured invariant- and missing-mass spectra, η -meson production σ , $\sigma(\theta)$. Comparison with BUU transport model and other data. JOUR ZAANE 38 195 |

A=12

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|------------------|----------|--|
| ^{12}Be | 2009IMZZ | NUCLEAR REACTIONS $\text{Au}(^{12}\text{Be}, ^{12}\text{Be}')$, $E=43$ MeV / nucleon; measured $E\gamma$, $I\gamma$, Half-life of 2^+ state using the DSA method. ^{12}Be ; deduced $B(E2)$. REPT RIKEN-NC-NP-31, Imai |
| ^{12}B | 2008CH28 | NUCLEAR REACTIONS H , $\text{C}(^{12}\text{Be}, \text{X})$, $E=50$ MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. $^{6,7,9}\text{Li}$, $^{8,9,10}\text{Be}$, $^{12,13}\text{B}$; deduced levels, J , π , widths, isospins. JOUR PRVCA 78 054307 |
| ^{12}C | 2009LE02 | NUCLEAR REACTIONS $^{12}\text{C}(^{17}\text{C}, \text{np}^{15}\text{B})$, $E=35$ MeV / nucleon; measured neutron spectra, (fragment)(neutron)-coin, $\sigma(\theta)$, related features. ^{16}B deduced energy levels, J , π , configurations. Comparison with shell model calculations and other data. Secondary radioactive beam. JOUR PYLBB 672 6 |
| ^{12}N | 2009FU03 | NUCLEAR REACTIONS ^{12}C , $^{16}\text{O}(^3\text{He}, \text{t})$, $E=140$ MeV / nucleon; measured triton spectra, σ , angular distributions. ^{16}F ; deduced levels, J , π , widths. ^{12}N ; deduced levels, J . Comparison with distorted wave Born approximation. $^{30}\text{Si}(^3\text{He}, \text{t})$, $E=140$ MeV / nucleon; analyzed angular distribution data for IAS. JOUR PRVCA 79 024314 |
| | 2009SA06 | NUCLEAR REACTIONS ^7Li , $\text{C}(\text{p}, \text{n})$, $E=297$ MeV; ^{58}Ni , ^{70}Zn , ^{114}Cd , ^{118}Sn , $^{120}\text{Sn}(\text{p}, \text{n})$, $E=198, 297$ MeV; measured neutron TOF and $\sigma(E, \theta)$. ^7Be , ^{12}N , ^{13}N , ^{58}Cu , ^{70}Ga , ^{114}In , ^{118}Sb , ^{120}Sb ; deduced $B(\text{GT})$. JOUR PRVCA 79 024602 |

A=13

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| ^{13}B | 2008CH28 | NUCLEAR REACTIONS H , $\text{C}(^{12}\text{Be}, \text{X})$, $E=50$ MeV / nucleon; measured particle spectra, (particle)(particle)-coin, angular distributions. $^{6,7,9}\text{Li}$, $^{8,9,10}\text{Be}$, $^{12,13}\text{B}$; deduced levels, J , π , widths, isospins. JOUR PRVCA 78 054307 |
| ^{13}C | 2009BA09 | NUCLEAR REACTIONS $^{14}\text{N}(^{12}\text{N}, ^{13}\text{O})$, $E=12$ MeV / nucleon; measured particle spectra, angular distributions, DWBA analysis; $^{12}\text{N}(\text{p}, \gamma)$; deduced asymptotic normalization coefficient, astrophysical S-factor, and reaction rates. JOUR PRVCA 79 025805 |
| ^{13}N | 2009SA06 | NUCLEAR REACTIONS ^7Li , $\text{C}(\text{p}, \text{n})$, $E=297$ MeV; ^{58}Ni , ^{70}Zn , ^{114}Cd , ^{118}Sn , $^{120}\text{Sn}(\text{p}, \text{n})$, $E=198, 297$ MeV; measured neutron TOF and $\sigma(E, \theta)$. ^7Be , ^{12}N , ^{13}N , ^{58}Cu , ^{70}Ga , ^{114}In , ^{118}Sb , ^{120}Sb ; deduced $B(\text{GT})$. JOUR PRVCA 79 024602 |

A=13 (continued)

¹³O 2009BA09 NUCLEAR REACTIONS ¹⁴N(¹²N, ¹³O), E=12 MeV / nucleon; measured particle spectra, angular distributions, DWBA analysis; ¹²N(p, γ); deduced asymptotic normalization coefficient, astrophysical S-factor, and reaction rates. JOUR PRVCA 79 025805

A=14

¹⁴N 2008SE12 NUCLEAR MOMENTS ¹⁴N; measured temperature dependence of nuclear quadrupole resonance frequencies. JOUR ZNASE 63a 88

A=15

¹⁵O 2009DE03 NUCLEAR REACTIONS ¹H(¹⁸F, α), E=13.8 MeV; measured (particle)-(particle) coin, σ, σ(θ); deduced S-factor. Comparison with R-matrix calculations. JOUR PRVCA 79 015801

A=16

¹⁶B 2009LE02 NUCLEAR REACTIONS ¹²C(¹⁷C, np¹⁵B), E=35 MeV / nucleon; measured neutron spectra, (fragment)(neutron)-coin, σ(θ), related features. ¹⁶B deduced energy levels, J, π, configurations. Comparison with shell model calculations and other data. Secondary radioactive beam. JOUR PYLBB 672 6

¹⁶N 2008BA45 NUCLEAR REACTIONS ²H(¹⁵N, p), E=100 MeV; measured particle spectra, σ(θ), spectroscopic factors. ¹⁶N; deduced levels, J, π. ¹⁵N(n, γ); deduced reaction rate. Comparison with Distorted-Wave Born approximation. JOUR PRVCA 78 052801

¹⁶O 2008AN17 NUCLEAR REACTIONS ¹⁶O(¹⁴N, ¹⁴N), (¹⁴N, ¹³C), E=76.2, 57.0 MeV; measured σ(θ). Compared results to model calculations. JOUR CPLEE 25 4237

2008MA51 NUCLEAR REACTIONS ¹⁹F(p, αγ), E≈2 MeV; measured Eγ, Iγ, γγ coin, angular distributions. ¹²C(α, γ)¹⁶O; analyzed widths, S-factor, Asymptotic Normalization Coefficient. JOUR PRVCA 78 065801

¹⁶F 2009FU03 NUCLEAR REACTIONS ¹²C, ¹⁶O(³He, t), E=140 MeV / nucleon; measured triton spectra, σ, angular distributions. ¹⁶F; deduced levels, J, π, widths. ¹²N; deduced levels, J. Comparison with distorted wave Born approximation. ³⁰Si(³He, t), E=140 MeV / nucleon; analyzed angular distribution data for IAS. JOUR PRVCA 79 024314

KEYNUMBERS AND KEYWORDS

A=17

- ¹⁷C 2009K002 NUCLEAR REACTIONS ¹H(¹⁹C, ¹⁸C), E=81 MeV / nucleon; ¹H(¹⁸C, ¹⁷C), E=68 MeV / nucleon; measured E γ , I γ , σ , (particle)- γ coin, transverse-momentum distributions. ^{17,18}C; deduced levels, J, π . Comparison with continuum-discretized coupled-channel calculations. JOUR PRVCA 79 014602
- ¹⁷F 2008AN17 NUCLEAR REACTIONS ¹⁶O(¹⁴N, ¹⁴N), (¹⁴N, ¹³C), E=76.2, 57.0 MeV; measured $\sigma(\theta)$. Compared results to model calculations. JOUR CPLEE 25 4237
- ¹⁷Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502

A=18

- ¹⁸C 2009K002 NUCLEAR REACTIONS ¹H(¹⁹C, ¹⁸C), E=81 MeV / nucleon; ¹H(¹⁸C, ¹⁷C), E=68 MeV / nucleon; measured E γ , I γ , σ , (particle)- γ coin, transverse-momentum distributions. ^{17,18}C; deduced levels, J, π . Comparison with continuum-discretized coupled-channel calculations. JOUR PRVCA 79 014602
- ¹⁸Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502
- 2009JI02 NUCLEAR REACTIONS ¹⁹⁷Au(¹⁸Ne, ¹⁸Ne'), E not given; measured E p , I p . ¹⁸Ne; deduced level energies. Two proton decay. JOUR CPLEE 26 032301

A=19

- ¹⁹Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502

A=20

- ²⁰C 2009EL03 NUCLEAR REACTIONS ²⁰⁸Pb(²⁰C, ²⁰C'), E=37.6 MeV / nucleon; ¹H(²⁰C, ²⁰C'), E=41.4 MeV / nucleon; measured E γ , I γ . ²⁰C; deduced levels, J, π , charge and neutron transition probabilities, B(E2). Comparison with shell model calculations. JOUR PRVCA 79 011302
- ²⁰Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502
- ²⁰Na 2009MI04 NUCLEAR MOMENTS ^{20,21,27}Na [from Si(p, X), E=500 MeV]; measured β -NMR spectra; deduced quadrupole coupling constants and quadrupole moments. Comparison with shell model predictions and data. JOUR PYLBB 672 120

KEYNUMBERS AND KEYWORDS

A=21

- ²¹Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502
- ²¹Na 2009MI04 NUCLEAR MOMENTS ^{20,21,27}Na [from Si(p, X), E=500 MeV]; measured β -NMR spectra; deduced quadrupole coupling constants and quadrupole moments. Comparison with shell model predictions and data. JOUR PYLBB 672 120

A=22

- ²²O 2008FR10 NUCLEAR REACTIONS ⁹Be(²⁶Ne, X)²²O / ²³O / ²⁴O, E=86 MeV / nucleon; measured fragment and neutron spectra, (fragment)n-coin, decay energy spectra; deduced reaction mechanism features. ^{22,23,24}O deduced levels, J, π , strength functions, configurations. ²³O observed unbound state. JOUR NUPAB 813 199
- ²²Ne 2008GE07 ATOMIC MASSES ^{17,18,19,20,21,22}Ne; measured masses and charge radii using penning trap mass spectrometry. JOUR PRLTA 101 252502
- ²²Na 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, np α), (⁶Li, p α), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2 α), (⁶Li, n α), (⁷Li, n2p), (⁷Li, np α), (⁷Li, p α), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2 α), (⁷Li, n α), E=6.0-30.0 MeV; measured E γ , I γ , σ . JOUR PRVCA 78 064617

A=23

- ²³O 2008FR10 NUCLEAR REACTIONS ⁹Be(²⁶Ne, X)²²O / ²³O / ²⁴O, E=86 MeV / nucleon; measured fragment and neutron spectra, (fragment)n-coin, decay energy spectra; deduced reaction mechanism features. ^{22,23,24}O deduced levels, J, π , strength functions, configurations. ²³O observed unbound state. JOUR NUPAB 813 199
- ²³Na 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, np α), (⁶Li, p α), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2 α), (⁶Li, n α), (⁷Li, n2p), (⁷Li, np α), (⁷Li, p α), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2 α), (⁷Li, n α), E=6.0-30.0 MeV; measured E γ , I γ , σ . JOUR PRVCA 78 064617

A=24

- ²⁴O 2008FR10 NUCLEAR REACTIONS ⁹Be(²⁶Ne, X)²²O / ²³O / ²⁴O, E=86 MeV / nucleon; measured fragment and neutron spectra, (fragment)n-coin, decay energy spectra; deduced reaction mechanism features. ^{22,23,24}O deduced levels, J, π , strength functions, configurations. ²³O observed unbound state. JOUR NUPAB 813 199
- 2009H001 NUCLEAR REACTIONS Be(²⁶F, n²³O), E=85 MeV / nucleon; measured neutron decay energy spectra, (fragment)(neutron)-coin. ²⁴O deduced excited state energies, J, π . Comparison with other data and systematics. Secondary radioactive beam. JOUR PYLBB 672 17

KEYNUMBERS AND KEYWORDS

A=24 (continued)

²⁴Mg 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

A=25

²⁵Mg 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

²⁵Al 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

A=26

²⁶Ne 2009GIZZ NUCLEAR REACTIONS ²⁰⁸Pb(²⁶Ne, ²⁶Ne'), E=58 MeV / nucleon; measured fragment spectra. ²⁶Ne; deduced level energies, B(E1). REPT RIKEN-NC-NP-29,Gibelin

²⁶Mg 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

²⁶Al 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

A=27

²⁷Na 2009MI04 NUCLEAR MOMENTS ^{20,21,27}Na [from Si(p, X), E=500 MeV]; measured β-NMR spectra; deduced quadrupole coupling constants and quadrupole moments. Comparison with shell model predictions and data. JOUR PYLBB 672 120

²⁷Al 2008KA43 NUCLEAR REACTIONS ²⁶Mg(p, γ), E=0.8-3.0 MeV; measured Eγ, Iγ, excitation function. ²⁷Al; deduced resonance strengths, B(M1). JOUR BRSP 72 1544

2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

KEYNUMBERS AND KEYWORDS

A=28

- ²⁸Al 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617
- ²⁸Si 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

A=29

- ²⁹Si 2008RA27 NUCLEAR REACTIONS ²⁴Mg(⁶Li, n2p), (⁶Li, npα), (⁶Li, pα), (⁶Li, 2p), (⁶Li, np), (⁶Li, 2α), (⁶Li, nα), (⁷Li, n2p), (⁷Li, npα), (⁷Li, pα), (⁷Li, 2np), (⁷Li, np), (⁷Li, 2α), (⁷Li, nα), E=6.0-30.0 MeV; measured Eγ, Iγ, σ. JOUR PRVCA 78 064617

A=30

- ³⁰P 2009FU03 NUCLEAR REACTIONS ¹²C, ¹⁶O(³He, t), E=140 MeV / nucleon; measured triton spectra, σ, angular distributions. ¹⁶F; deduced levels, J, π, widths. ¹²N; deduced levels, J. Comparison with distorted wave Born approximation. ³⁰Si(³He, t), E=140 MeV / nucleon; analyzed angular distribution data for IAS. JOUR PRVCA 79 024314

A=31

- ³¹Al 2009NA03 NUCLEAR REACTIONS ⁹³Nb(⁴⁰Ar, X)³¹Al, E=95 MeV / nucleon; measured ground state electric quadrupole moment for a spin polarized ³¹Al beam using β-NQR spectroscopy. JOUR PRVCA 79 027301
- 2009NA03 NUCLEAR MOMENTS ³¹Al; measured ground state electric quadrupole moments using the β-NQR method. JOUR PRVCA 79 027301

A=32

No references found

A=33

No references found

A=34

No references found

A=35

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| ³⁵ S | 2008AL39 | RADIOACTIVITY ³⁵ S(β^-); measured internal bremsstrahlung spectrum. JOUR BR SPE 72 1556 |
| ³⁵ Cl | 2008AL39 | RADIOACTIVITY ³⁵ S(β^-); measured internal bremsstrahlung spectrum. JOUR BR SPE 72 1556 |
| | 2008SI29 | NUCLEAR MOMENTS ³⁵ Cl; measured nuclear quadrupole resonance spectra. JOUR ZNASE 63a 81 |

A=36

No references found

A=37

No references found

A=38

No references found

A=39

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|-----------------|----------|---|
| ³⁹ K | 2008ME15 | NUCLEAR REACTIONS ¹² C, ⁴⁰ Ca, ⁹³ Nb, Pb(polarized γ , $p\pi^0$), E=0.6-2.2 GeV bremsstrahlung; measured invariant- and missing-mass spectra, η -meson production σ , $\sigma(\theta)$. Comparison with BUU transport model and other data. JOUR ZAANE 38 195 |
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A=40

No references found

A=41

No references found

A=42

No references found

KEYNUMBERS AND KEYWORDS

A=43

⁴³S 2009GA05 RADIOACTIVITY ⁴³S(IT); measured E_γ , $I_\gamma(\theta)$, g-factor using the time dependent perturbed angular distribution method; deduced B(E2), B(M1). JOUR PRLTA 102 092501

A=44

No references found

A=45

No references found

A=46

No references found

A=47

No references found

A=48

⁴⁸Ca 2008UM05 RADIOACTIVITY ⁴⁸Ca(2β); measured half-life for neutrinoless double-beta decay. JOUR PRVCA 78 058501
⁴⁸V 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured E_γ , I_γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

A=49

No references found

A=50

No references found

KEYNUMBERS AND KEYWORDS

A=51

⁵¹Sc 2009BH02 NUCLEAR REACTIONS ⁴⁸Ca(²³⁸U, X)⁵¹Sc / ⁵²Sc / ⁵³Sc, E=1.31 GeV; measured E γ , I γ , yrast and non-yrast states; deduced levels, J, π . Comparison with shell-model calculations using full pf space. JOUR PRVCA 79 014313

A=52

⁵²Sc 2009BH02 NUCLEAR REACTIONS ⁴⁸Ca(²³⁸U, X)⁵¹Sc / ⁵²Sc / ⁵³Sc, E=1.31 GeV; measured E γ , I γ , yrast and non-yrast states; deduced levels, J, π . Comparison with shell-model calculations using full pf space. JOUR PRVCA 79 014313

⁵²Mn 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

A=53

⁵³Sc 2009BH02 NUCLEAR REACTIONS ⁴⁸Ca(²³⁸U, X)⁵¹Sc / ⁵²Sc / ⁵³Sc, E=1.31 GeV; measured E γ , I γ , yrast and non-yrast states; deduced levels, J, π . Comparison with shell-model calculations using full pf space. JOUR PRVCA 79 014313

A=54

⁵⁴Mn 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

⁵⁴Fe 2009EA02 NUCLEAR REACTIONS C(⁵⁴Fe, ⁵⁴Fe'), (⁵⁶Fe, ⁵⁶Fe'), (⁵⁸Fe, ⁵⁸Fe), E=110 MeV / nucleon; measured E γ , I γ (θ), $\gamma\gamma$ -, ¹²C- γ coin, precession angles. ^{54,56,58}Fe; deduced g factors. JOUR PRVCA 79 024304

2009EA02 NUCLEAR MOMENTS ^{54,56,58}Fe; measured g factors of first 2+ states of ⁵⁴Fe and ⁵⁸Fe relative to that of the first 2+ state in ⁵⁶Fe using transient-field technique in Coulomb excitation in inverse kinematics. Comparison with shell-model calculations in fp model space. JOUR PRVCA 79 024304

A=55

⁵⁵Co 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

A=56

- ⁵⁶Fe 2008AL35 NUCLEAR REACTIONS ⁵⁷Fe(³He, ³He'γ), (³He, αγ), E=45 MeV; measured Eγ, Iγ, (particle)γ-coin. Deduced level densities, thermodynamic properties. JOUR PRVCA 78 054321
- 2009EA01 NUCLEAR REACTIONS C(⁵⁶Fe, ⁵⁶Fe'), (⁵⁷Fe, ⁵⁷Fe'), E=2 MeV / nucleon; measured Eγ, Iγ(θ), γγ-, ¹²C-γ coin, angular correlations, precession angles. ^{56,57}Fe; deduced g factors. JOUR PRVCA 79 024303
- 2009EA01 NUCLEAR MOMENTS ⁵⁶Fe, ⁵⁷Fe; measured g factor of first 2+ state of ⁵⁶Fe relative to that of the first 5 / 2- state in ⁵⁷Fe using transient-field technique in Coulomb excitation. JOUR PRVCA 79 024303
- 2009EA02 NUCLEAR REACTIONS C(⁵⁴Fe, ⁵⁴Fe'), (⁵⁶Fe, ⁵⁶Fe'), (⁵⁸Fe, ⁵⁸Fe), E=110 MeV / nucleon; measured Eγ, Iγ(θ), γγ-, ¹²C-γ coin, precession angles. ^{54,56,58}Fe; deduced g factors. JOUR PRVCA 79 024304
- 2009EA02 NUCLEAR MOMENTS ^{54,56,58}Fe; measured g factors of first 2+ states of ⁵⁴Fe and ⁵⁸Fe relative to that of the first 2+ state in ⁵⁶Fe using transient-field technique in Coulomb excitation in inverse kinematics. Comparison with shell-model calculations in fp model space. JOUR PRVCA 79 024304
- ⁵⁶Co 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured Eγ, Iγ, excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

A=57

- ⁵⁷Fe 2008AL35 NUCLEAR REACTIONS ⁵⁷Fe(³He, ³He'γ), (³He, αγ), E=45 MeV; measured Eγ, Iγ, (particle)γ-coin. Deduced level densities, thermodynamic properties. JOUR PRVCA 78 054321
- 2009EA01 NUCLEAR REACTIONS C(⁵⁶Fe, ⁵⁶Fe'), (⁵⁷Fe, ⁵⁷Fe'), E=2 MeV / nucleon; measured Eγ, Iγ(θ), γγ-, ¹²C-γ coin, angular correlations, precession angles. ^{56,57}Fe; deduced g factors. JOUR PRVCA 79 024303
- 2009EA01 NUCLEAR MOMENTS ⁵⁶Fe, ⁵⁷Fe; measured g factor of first 2+ state of ⁵⁶Fe relative to that of the first 5 / 2- state in ⁵⁷Fe using transient-field technique in Coulomb excitation. JOUR PRVCA 79 024303
- ⁵⁷Co 2009KI01 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, E < 10 MeV; Fe(d, X)⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁵⁹Fe / ⁵²Mn / ⁵⁴Mn, E < 10 MeV; measured Eγ, Iγ, excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15

A=58

- ⁵⁸Fe 2009EA02 NUCLEAR REACTIONS C(⁵⁴Fe, ⁵⁴Fe'), (⁵⁶Fe, ⁵⁶Fe'), (⁵⁸Fe, ⁵⁸Fe), E=110 MeV / nucleon; measured Eγ, Iγ(θ), γγ-, ¹²C-γ coin, precession angles. ^{54,56,58}Fe; deduced g factors. JOUR PRVCA 79 024304

KEYNUMBERS AND KEYWORDS

A=58 (continued)

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| 2009EA02 | | NUCLEAR MOMENTS ^{54,56,58} Fe; measured g factors of first 2+ states of ⁵⁴ Fe and ⁵⁸ Fe relative to that of the first 2+ state in ⁵⁶ Fe using transient-field technique in Coulomb excitation in inverse kinematics. Comparison with shell-model calculations in fp model space. JOUR PRVCA 79 024304 |
| ⁵⁸ Co | 2009KI01 | NUCLEAR REACTIONS Ti(d, X) ⁴⁸ V, E < 10 MeV; Fe(d, X) ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁵⁹ Fe / ⁵² Mn / ⁵⁴ Mn, E < 10 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15 |
| ⁵⁸ Ni | 2009AG02 | NUCLEAR REACTIONS ⁵⁸ Ni(⁶ Li, ⁶ Li), E=9.9, 11.2, 12.1, 13.0, 14.0 MeV; ⁵⁸ Ni(⁷ Be, ⁷ Be), E=15.1, 17.1, 18.5, 19.9, 21.4 MeV; ⁵⁸ Ni(⁸ B, ⁸ B), E=20.7, 23.4, 25.3, 27.2, 29.3 MeV; measured σ , angular distributions; deduced total reaction and breakup cross section for (⁸ B, ⁸ B) reaction, and proton halo effects for ⁸ B. Comparison with optical-model calculations. JOUR PRVCA 79 021601 |
| ⁵⁸ Cu | 2008AN15 | NUCLEAR REACTIONS ^{58,60,62,64} Ni(p, n), E=134.3 MeV; measured neutron spectra, angular distributions, σ ; calculated B(GT), reaction rates. ^{58,60,62,64} Cu; deduced levels. Comparison with (n, p) reactions, shell model calculations. JOUR PRVCA 78 065803 |
| | 2009SA06 | NUCLEAR REACTIONS ⁷ Li, C(p, n), E=297 MeV; ⁵⁸ Ni, ⁷⁰ Zn, ¹¹⁴ Cd, ¹¹⁸ Sn, ¹²⁰ Sn(p, n), E=198, 297 MeV; measured neutron TOF and $\sigma(E, \theta)$. ⁷ Be, ¹² N, ¹³ N, ⁵⁸ Cu, ⁷⁰ Ga, ¹¹⁴ In, ¹¹⁸ Sb, ¹²⁰ Sb; deduced B(GT). JOUR PRVCA 79 024602 |

A=59

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| ⁵⁹ Fe | 2009KI01 | NUCLEAR REACTIONS Ti(d, X) ⁴⁸ V, E < 10 MeV; Fe(d, X) ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁵⁹ Fe / ⁵² Mn / ⁵⁴ Mn, E < 10 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. JOUR NIMBE 267 15 |
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A=60

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| ⁶⁰ Cr | 2009A001 | NUCLEAR REACTIONS ¹ H(⁶⁰ Cr, ⁶⁰ Cr'), E=42 MeV / nucleon; ¹ H(⁶² Cr, ⁶² Cr'), E=39 MeV / nucleon; measured E γ , I γ , $\gamma\gamma$, (particle) γ -coin. ⁶⁰ Cr; deduced deformation length. ⁶² Cr; deduced levels, J, π , deformation length. JOUR PRLTA 102 012502 |
| ⁶⁰ Ni | 2008T015 | NUCLEAR REACTIONS ²⁸ Si(³⁶ Ar, 4p), E=134, 143, 148 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions. ⁶⁰ Ni; deduced levels, J, π , multipolarity, mixing ratios, B(M1), B(E2). Comparison with cranked Nilsson Strutinsky calculations. JOUR PRVCA 78 054318 |
| ⁶⁰ Cu | 2008AN15 | NUCLEAR REACTIONS ^{58,60,62,64} Ni(p, n), E=134.3 MeV; measured neutron spectra, angular distributions, σ ; calculated B(GT), reaction rates. ^{58,60,62,64} Cu; deduced levels. Comparison with (n, p) reactions, shell model calculations. JOUR PRVCA 78 065803 |

KEYNUMBERS AND KEYWORDS

A=61

⁶¹Zn 2009AN01 NUCLEAR REACTIONS ³⁶Ar(²⁸Si, n2p), E=142, 148 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, neutron and particle spectra. ⁶¹Zn; deduced levels, J, π , multipolarity, bands. Comparison with Cranked Nilsson-Strutinsky calculations. JOUR PRVCA 79 024312

A=62

⁶²Cr 2009A001 NUCLEAR REACTIONS ¹H(⁶⁰Cr, ⁶⁰Cr'), E=42 MeV / nucleon; ¹H(⁶²Cr, ⁶²Cr'), E=39 MeV / nucleon; measured E γ , I γ , $\gamma\gamma$, (particle) γ -coin. ⁶⁰Cr; deduced deformation length. ⁶²Cr; deduced levels, J, π , deformation length. JOUR PRLTA 102 012502

⁶²Cu 2008AN15 NUCLEAR REACTIONS ^{58,60,62,64}Ni(p, n), E=134.3 MeV; measured neutron spectra, angular distributions, σ ; calculated B(GT), reaction rates. ^{58,60,62,64}Cu; deduced levels. Comparison with (n, p) reactions, shell model calculations. JOUR PRVCA 78 065803

A=63

⁶³Cu 2008SH24 NUCLEAR REACTIONS ⁶³Cu(¹⁶O, ¹⁶O), E=30.0-48.0 MeV; measured σ , angular distributions; deduced experimental barrier distributions. Comparison with coupled channel calculations. JOUR PRVCA 78 064610

A=64

⁶⁴Ni 2008FA12 RADIOACTIVITY ⁶⁴Cu(β^+), (β^-); measured half-life, temperature dependence. JOUR PRVCA 78 057301

⁶⁴Cu 2008AN15 NUCLEAR REACTIONS ^{58,60,62,64}Ni(p, n), E=134.3 MeV; measured neutron spectra, angular distributions, σ ; calculated B(GT), reaction rates. ^{58,60,62,64}Cu; deduced levels. Comparison with (n, p) reactions, shell model calculations. JOUR PRVCA 78 065803

2008FA12 RADIOACTIVITY ⁶⁴Cu(β^+), (β^-); measured half-life, temperature dependence. JOUR PRVCA 78 057301

2009DA04 NUCLEAR REACTIONS ⁶⁴Ni(d, 2n), (d, p), E < 20.5 MeV; measured E γ , I γ , excitation function using the stacked foil activation technique. JOUR ARISE 67 506

2009RE02 NUCLEAR REACTIONS ⁶⁴Ni(p, n), E < 24 MeV; measured E γ , I γ , excitation function using the stacked foil activation technique. Compared results to existing data and model calculations. JOUR NIMBE 267 457

⁶⁴Zn 2008FA12 RADIOACTIVITY ⁶⁴Cu(β^+), (β^-); measured half-life, temperature dependence. JOUR PRVCA 78 057301

KEYNUMBERS AND KEYWORDS

A=64 (continued)

⁶⁴Ge 2009ST04 RADIOACTIVITY ⁸⁰Y, ⁸¹Zr, ^{83,84}Nb, ⁸⁴Mo(EC), (β^+) [from ⁹Be(¹²⁴Xe, X), E=140 MeV / nucleon]; measured E γ , (particle)- γ coin, (particle)- β coin, half-life. ⁶⁴Ge, ⁶⁸Se, ⁷²Kr, ⁷⁶Sr, ⁸⁰Zr, ⁸⁴Mo, ⁸⁸Ru;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=65

⁶⁵Ni 2009DA04 NUCLEAR REACTIONS ⁶⁴Ni(d, 2n), (d, p), E < 20.5 MeV; measured E γ , I γ , excitation function using the stacked foil activation technique. JOUR ARISE 67 506

A=66

No references found

A=67

No references found

A=68

⁶⁸Se 2009ST04 RADIOACTIVITY ⁸⁰Y, ⁸¹Zr, ^{83,84}Nb, ⁸⁴Mo(EC), (β^+) [from ⁹Be(¹²⁴Xe, X), E=140 MeV / nucleon]; measured E γ , (particle)- γ coin, (particle)- β coin, half-life. ⁶⁴Ge, ⁶⁸Se, ⁷²Kr, ⁷⁶Sr, ⁸⁰Zr, ⁸⁴Mo, ⁸⁸Ru;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=69

No references found

A=70

⁷⁰Ga 2009SA06 NUCLEAR REACTIONS ⁷Li, C(p, n), E=297 MeV; ⁵⁸Ni, ⁷⁰Zn, ¹¹⁴Cd, ¹¹⁸Sn, ¹²⁰Sn(p, n), E=198, 297 MeV; measured neutron TOF and $\sigma(E, \theta)$. ⁷Be, ¹²N, ¹³N, ⁵⁸Cu, ⁷⁰Ga, ¹¹⁴In, ¹¹⁸Sb, ¹²⁰Sb; deduced B(GT). JOUR PRVCA 79 024602

KEYNUMBERS AND KEYWORDS

A=71

- ⁷¹Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
- ⁷¹As 2009EL02 NUCLEAR REACTIONS Se(p, X)⁷⁵Br / ⁷⁶Br / ⁷⁷Br / ⁸⁰Br / ⁸²Br / ⁷³Se / ⁷⁵Se / ⁷¹As / ⁷²As / ⁷⁶As / ⁷⁷As, E <62 MeV; measured E γ , I γ , excitation functions. JOUR RAACA 97 71

A=72

- ⁷²Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
- ⁷²As 2009EL02 NUCLEAR REACTIONS Se(p, X)⁷⁵Br / ⁷⁶Br / ⁷⁷Br / ⁸⁰Br / ⁸²Br / ⁷³Se / ⁷⁵Se / ⁷¹As / ⁷²As / ⁷⁶As / ⁷⁷As, E <62 MeV; measured E γ , I γ , excitation functions. JOUR RAACA 97 71
- ⁷²Kr 2009ST04 RADIOACTIVITY ⁸⁰Y, ⁸¹Zr, ^{83,84}Nb, ⁸⁴Mo(EC), (β^+) [from ⁹Be(¹²⁴Xe, X), E=140 MeV / nucleon]; measured E γ , (particle)- γ coin, (particle)- β coin, half-life. ⁶⁴Ge, ⁶⁸Se, ⁷²Kr, ⁷⁶Sr, ⁸⁰Zr, ⁸⁴Mo, ⁸⁸Ru;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=73

- ⁷³Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
- ⁷³Ga 2009KA06 NUCLEAR REACTIONS ^{74,76}Ge, ^{76,78}Se(d, ³He), (polarized d, ³He), E=80 MeV; measured ³He spectra, σ , angular distributions, vector analyzing powers. ^{74,76}Ge, ^{76,78}Se(³He, d), E=72 MeV; measured deuteron spectra, σ , angular distributions. ^{73,75}Ga, ^{75,77}As, ^{77,79}Br; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. ⁷⁶Ge, ⁷⁶Se; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ⁷⁶Ge and ⁷⁶Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ⁷⁶Ge to ⁷⁶Se. JOUR PRVCA 79 021301
- ⁷³As 2009ST04 NUCLEAR REACTIONS ⁹Be(¹²⁴Xe, X)⁷³As / ⁷⁴Se / ⁷⁶Br / ⁷⁷Kr / ⁷⁸Rb / ⁷⁹Sr / ⁸⁰Y / ^{81,82}Zr / ⁸³Nb / ⁸⁴Nb / ⁸⁴Mo, E=140 MeV / nucleon; measured yields. JOUR PRVCA 79 015803
- ⁷³Se 2009EL02 NUCLEAR REACTIONS Se(p, X)⁷⁵Br / ⁷⁶Br / ⁷⁷Br / ⁸⁰Br / ⁸²Br / ⁷³Se / ⁷⁵Se / ⁷¹As / ⁷²As / ⁷⁶As / ⁷⁷As, E <62 MeV; measured E γ , I γ , excitation functions. JOUR RAACA 97 71

A=74

- ⁷⁴Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501

KEYNUMBERS AND KEYWORDS

A=74 (continued)

- 2009VA01 NUCLEAR REACTIONS $^{120}\text{Sn}(^{74}\text{Zn}, ^{74}\text{Zn}')$, $E=2.87$ MeV / nucleon; $^{120}\text{Sn}(^{76}\text{Zn}, ^{76}\text{Zn}')$, $E=2.83$ MeV / nucleon; $^{108}\text{Pd}(^{78}\text{Zn}, ^{78}\text{Zn}')$, $E=2.87$ MeV / nucleon; $^{108}\text{Pd}(^{80}\text{Zn}, ^{80}\text{Zn}')$, $E=2.79$ MeV / nucleon; measured $E\gamma$, $I\gamma$, charged particle spectra, (particle)- γ coin, measured half-lives of first 2^+ state, $B(E2)$. $^{74,76,78,80}\text{Zn}$, ^{80}Ga , ^{80}Rb , ^{108}Pd , ^{120}Sn ; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of $B(E2)$ values. Comparison with shell-model calculations. JOUR PRVCA 79 014309
- ^{74}Se 2009ST04 NUCLEAR REACTIONS $^9\text{Be}(^{124}\text{Xe}, X)^{73}\text{As} / ^{74}\text{Se} / ^{76}\text{Br} / ^{77}\text{Kr} / ^{78}\text{Rb} / ^{79}\text{Sr} / ^{80}\text{Y} / ^{81,82}\text{Zr} / ^{83}\text{Nb} / ^{84}\text{Nb} / ^{84}\text{Mo}$, $E=140$ MeV / nucleon; measured yields. JOUR PRVCA 79 015803

A=75

- ^{75}Zn 2008BA54 ATOMIC MASSES $^{71,72,73,74,75,76,77,78,79,80,81}\text{Zn}$; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
- ^{75}Ga 2009KA06 NUCLEAR REACTIONS $^{74,76}\text{Ge}, ^{76,78}\text{Se}(d, ^3\text{He})$, (polarized $d, ^3\text{He}$), $E=80$ MeV; measured ^3He spectra, σ , angular distributions, vector analyzing powers. $^{74,76}\text{Ge}, ^{76,78}\text{Se}(^3\text{He}, d)$, $E=72$ MeV; measured deuteron spectra, σ , angular distributions. $^{73,75}\text{Ga}, ^{75,77}\text{As}, ^{77,79}\text{Br}$; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. $^{76}\text{Ge}, ^{76}\text{Se}$; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ^{76}Ge and ^{76}Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ^{76}Ge to ^{76}Se . JOUR PRVCA 79 021301
- ^{75}As 2009KA06 NUCLEAR REACTIONS $^{74,76}\text{Ge}, ^{76,78}\text{Se}(d, ^3\text{He})$, (polarized $d, ^3\text{He}$), $E=80$ MeV; measured ^3He spectra, σ , angular distributions, vector analyzing powers. $^{74,76}\text{Ge}, ^{76,78}\text{Se}(^3\text{He}, d)$, $E=72$ MeV; measured deuteron spectra, σ , angular distributions. $^{73,75}\text{Ga}, ^{75,77}\text{As}, ^{77,79}\text{Br}$; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. $^{76}\text{Ge}, ^{76}\text{Se}$; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ^{76}Ge and ^{76}Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ^{76}Ge to ^{76}Se . JOUR PRVCA 79 021301
- ^{75}Se 2009EL02 NUCLEAR REACTIONS $\text{Se}(p, X)^{75}\text{Br} / ^{76}\text{Br} / ^{77}\text{Br} / ^{80}\text{Br} / ^{82}\text{Br} / ^{73}\text{Se} / ^{75}\text{Se} / ^{71}\text{As} / ^{72}\text{As} / ^{76}\text{As} / ^{77}\text{As}$, $E < 62$ MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71
- ^{75}Br 2009EL02 NUCLEAR REACTIONS $\text{Se}(p, X)^{75}\text{Br} / ^{76}\text{Br} / ^{77}\text{Br} / ^{80}\text{Br} / ^{82}\text{Br} / ^{73}\text{Se} / ^{75}\text{Se} / ^{71}\text{As} / ^{72}\text{As} / ^{76}\text{As} / ^{77}\text{As}$, $E < 62$ MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71

A=76

^{76}Zn	2008BA54	ATOMIC MASSES $^{71,72,73,74,75,76,77,78,79,80,81}\text{Zn}$; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
	2009VA01	NUCLEAR REACTIONS $^{120}\text{Sn}(^{74}\text{Zn}, ^{74}\text{Zn}')$, E=2.87 MeV / nucleon; $^{120}\text{Sn}(^{76}\text{Zn}, ^{76}\text{Zn}')$, E=2.83 MeV / nucleon; $^{108}\text{Pd}(^{78}\text{Zn}, ^{78}\text{Zn}')$, E=2.87 MeV / nucleon; $^{108}\text{Pd}(^{80}\text{Zn}, ^{80}\text{Zn}')$, E=2.79 MeV / nucleon; measured $E\gamma$, $I\gamma$, charged particle spectra, (particle)- γ coin, measured half-lives of first 2^+ state, B(E2). $^{74,76,78,80}\text{Zn}$, ^{80}Ga , ^{80}Rb , ^{108}Pd , ^{120}Sn ; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309
^{76}Ge	2009KA06	NUCLEAR REACTIONS $^{74,76}\text{Ge}, ^{76,78}\text{Se}(d, ^3\text{He})$, (polarized d, ^3He), E=80 MeV; measured ^3He spectra, σ , angular distributions, vector analyzing powers. $^{74,76}\text{Ge}, ^{76,78}\text{Se}(^3\text{He}, d)$, E=72 MeV; measured deuteron spectra, σ , angular distributions. $^{73,75}\text{Ga}, ^{75,77}\text{As}, ^{77,79}\text{Br}$; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. $^{76}\text{Ge}, ^{76}\text{Se}$; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ^{76}Ge and ^{76}Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ^{76}Ge to ^{76}Se . JOUR PRVCA 79 021301
^{76}As	2009EL02	NUCLEAR REACTIONS $\text{Se}(p, X)^{75}\text{Br} / ^{76}\text{Br} / ^{77}\text{Br} / ^{80}\text{Br} / ^{82}\text{Br} / ^{73}\text{Se} / ^{75}\text{Se} / ^{71}\text{As} / ^{72}\text{As} / ^{76}\text{As} / ^{77}\text{As}$, E < 62 MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71
^{76}Se	2009KA06	NUCLEAR REACTIONS $^{74,76}\text{Ge}, ^{76,78}\text{Se}(d, ^3\text{He})$, (polarized d, ^3He), E=80 MeV; measured ^3He spectra, σ , angular distributions, vector analyzing powers. $^{74,76}\text{Ge}, ^{76,78}\text{Se}(^3\text{He}, d)$, E=72 MeV; measured deuteron spectra, σ , angular distributions. $^{73,75}\text{Ga}, ^{75,77}\text{As}, ^{77,79}\text{Br}$; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. $^{76}\text{Ge}, ^{76}\text{Se}$; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ^{76}Ge and ^{76}Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ^{76}Ge to ^{76}Se . JOUR PRVCA 79 021301
^{76}Br	2009EL02	NUCLEAR REACTIONS $\text{Se}(p, X)^{75}\text{Br} / ^{76}\text{Br} / ^{77}\text{Br} / ^{80}\text{Br} / ^{82}\text{Br} / ^{73}\text{Se} / ^{75}\text{Se} / ^{71}\text{As} / ^{72}\text{As} / ^{76}\text{As} / ^{77}\text{As}$, E < 62 MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71
	2009ST04	NUCLEAR REACTIONS $^9\text{Be}(^{124}\text{Xe}, X)^{73}\text{As} / ^{74}\text{Se} / ^{76}\text{Br} / ^{77}\text{Kr} / ^{78}\text{Rb} / ^{79}\text{Sr} / ^{80}\text{Y} / ^{81,82}\text{Zr} / ^{83}\text{Nb} / ^{84}\text{Nb} / ^{84}\text{Mo}$, E=140 MeV / nucleon; measured yields. JOUR PRVCA 79 015803
^{76}Sr	2009ST04	RADIOACTIVITY $^{80}\text{Y}, ^{81}\text{Zr}, ^{83,84}\text{Nb}, ^{84}\text{Mo}(\text{EC}), (\beta^+)$ [from $^9\text{Be}(^{124}\text{Xe}, X)$, E=140 MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. $^{64}\text{Ge}, ^{68}\text{Se}, ^{72}\text{Kr}, ^{76}\text{Sr}, ^{80}\text{Zr}, ^{84}\text{Mo}, ^{88}\text{Ru}$; systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

KEYNUMBERS AND KEYWORDS

A=77

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| ^{77}Zn | 2008BA54 | ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81} Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501 |
| ^{77}As | 2009EL02 | NUCLEAR REACTIONS Se(p, X) ⁷⁵ Br / ⁷⁶ Br / ⁷⁷ Br / ⁸⁰ Br / ⁸² Br / ⁷³ Se / ⁷⁵ Se / ⁷¹ As / ⁷² As / ⁷⁶ As / ⁷⁷ As, E <62 MeV; measured E γ , I γ , excitation functions. JOUR RAACA 97 71 |
| | 2009KA06 | NUCLEAR REACTIONS ^{74,76} Ge, ^{76,78} Se(d, ³ He), (polarized d, ³ He), E=80 MeV; measured ³ He spectra, σ , angular distributions, vector analyzing powers. ^{74,76} Ge, ^{76,78} Se(³ He, d), E=72 MeV; measured deuteron spectra, σ , angular distributions. ^{73,75} Ga, ^{75,77} As, ^{77,79} Br; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. ⁷⁶ Ge, ⁷⁶ Se; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ⁷⁶ Ge and ⁷⁶ Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ⁷⁶ Ge to ⁷⁶ Se. JOUR PRVCA 79 021301 |
| ^{77}Br | 2009EL02 | NUCLEAR REACTIONS Se(p, X) ⁷⁵ Br / ⁷⁶ Br / ⁷⁷ Br / ⁸⁰ Br / ⁸² Br / ⁷³ Se / ⁷⁵ Se / ⁷¹ As / ⁷² As / ⁷⁶ As / ⁷⁷ As, E <62 MeV; measured E γ , I γ , excitation functions. JOUR RAACA 97 71 |
| | 2009KA06 | NUCLEAR REACTIONS ^{74,76} Ge, ^{76,78} Se(d, ³ He), (polarized d, ³ He), E=80 MeV; measured ³ He spectra, σ , angular distributions, vector analyzing powers. ^{74,76} Ge, ^{76,78} Se(³ He, d), E=72 MeV; measured deuteron spectra, σ , angular distributions. ^{73,75} Ga, ^{75,77} As, ^{77,79} Br; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. ⁷⁶ Ge, ⁷⁶ Se; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ⁷⁶ Ge and ⁷⁶ Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ⁷⁶ Ge to ⁷⁶ Se. JOUR PRVCA 79 021301 |
| ^{77}Kr | 2009ST04 | NUCLEAR REACTIONS ⁹ Be(¹²⁴ Xe, X) ⁷³ As / ⁷⁴ Se / ⁷⁶ Br / ⁷⁷ Kr / ⁷⁸ Rb / ⁷⁹ Sr / ⁸⁰ Y / ^{81,82} Zr / ⁸³ Nb / ⁸⁴ Nb / ⁸⁴ Mo, E=140 MeV / nucleon; measured yields. JOUR PRVCA 79 015803 |

A=78

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| ^{78}Zn | 2008BA54 | ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81} Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501 |
| | 2009VA01 | NUCLEAR REACTIONS ¹²⁰ Sn(⁷⁴ Zn, ⁷⁴ Zn'), E=2.87 MeV / nucleon; ¹²⁰ Sn(⁷⁶ Zn, ⁷⁶ Zn'), E=2.83 MeV / nucleon; ¹⁰⁸ Pd(⁷⁸ Zn, ⁷⁸ Zn'), E=2.87 MeV / nucleon; ¹⁰⁸ Pd(⁸⁰ Zn, ⁸⁰ Zn'), E=2.79 MeV / nucleon; measured E γ , I γ , charged particle spectra, (particle)- γ coin, measured half-lives of first 2 ⁺ state, B(E2). ^{74,76,78,80} Zn, ⁸⁰ Ga, ⁸⁰ Rb, ¹⁰⁸ Pd, ¹²⁰ Sn; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309 |

KEYNUMBERS AND KEYWORDS

A=78 (continued)

⁷⁸Rb 2009ST04 NUCLEAR REACTIONS ⁹Be(¹²⁴Xe, X)⁷³As / ⁷⁴Se / ⁷⁶Br / ⁷⁷Kr / ⁷⁸Rb / ⁷⁹Sr / ⁸⁰Y / ^{81,82}Zr / ⁸³Nb / ⁸⁴Nb / ⁸⁴Mo, E=140 MeV / nucleon; measured yields. JOUR PRVCA 79 015803

A=79

⁷⁹Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501

⁷⁹Se 2009MA09 NUCLEAR REACTIONS ⁸⁰Se(γ , n)⁷⁹Se, E=9.91-12.7 MeV; measured neutron spectra, σ , Hauser-Feshbach analysis; deduced E1 strength functions for ⁸⁰Se and neutron capture cross section for ⁷⁹Se. Discussed implications on the abundances of ⁸⁰Kr and ⁸²Kr in the framework of phenomenological models for the s process. JOUR PRVCA 79 025801

⁷⁹Br 2009KA06 NUCLEAR REACTIONS ^{74,76}Ge, ^{76,78}Se(d, ³He), (polarized d, ³He), E=80 MeV; measured ³He spectra, σ , angular distributions, vector analyzing powers. ^{74,76}Ge, ^{76,78}Se(³He, d), E=72 MeV; measured deuteron spectra, σ , angular distributions. ^{73,75}Ga, ^{75,77}As, ^{77,79}Br; deduced levels, J, π , angular momentum transfers, spectroscopic factors. Comparison of angular distribution and polarization data with distorted wave Born approximation (DWBA) calculations. ⁷⁶Ge, ⁷⁶Se; deduced occupancies of valence proton orbitals in ground states. Comparison of occupancies of valence proton and neutron orbitals in ground states of ⁷⁶Ge and ⁷⁶Se with QRPA and shell-model calculations. Discussed implications for neutrinoless double β decay of ⁷⁶Ge to ⁷⁶Se. JOUR PRVCA 79 021301

⁷⁹Sr 2009ST04 NUCLEAR REACTIONS ⁹Be(¹²⁴Xe, X)⁷³As / ⁷⁴Se / ⁷⁶Br / ⁷⁷Kr / ⁷⁸Rb / ⁷⁹Sr / ⁸⁰Y / ^{81,82}Zr / ⁸³Nb / ⁸⁴Nb / ⁸⁴Mo, E=140 MeV / nucleon; measured yields. JOUR PRVCA 79 015803

A=80

⁸⁰Zn 2008BA54 ATOMIC MASSES ^{71,72,73,74,75,76,77,78,79,80,81}Zn; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501

 2009VA01 NUCLEAR REACTIONS ¹²⁰Sn(⁷⁴Zn, ⁷⁴Zn'), E=2.87 MeV / nucleon; ¹²⁰Sn(⁷⁶Zn, ⁷⁶Zn'), E=2.83 MeV / nucleon; ¹⁰⁸Pd(⁷⁸Zn, ⁷⁸Zn'), E=2.87 MeV / nucleon; ¹⁰⁸Pd(⁸⁰Zn, ⁸⁰Zn'), E=2.79 MeV / nucleon; measured E γ , I γ , charged particle spectra, (particle)- γ coin, measured half-lives of first 2⁺ state, B(E2). ^{74,76,78,80}Zn, ⁸⁰Ga, ⁸⁰Rb, ¹⁰⁸Pd, ¹²⁰Sn; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309

⁸⁰Ga 2009VA01 NUCLEAR REACTIONS ¹²⁰Sn(⁷⁴Zn, ⁷⁴Zn'), E=2.87 MeV / nucleon; ¹²⁰Sn(⁷⁶Zn, ⁷⁶Zn'), E=2.83 MeV / nucleon; ¹⁰⁸Pd(⁷⁸Zn, ⁷⁸Zn'), E=2.87 MeV / nucleon; ¹⁰⁸Pd(⁸⁰Zn, ⁸⁰Zn'), E=2.79 MeV / nucleon; measured E γ , I γ , charged particle spectra, (particle)- γ coin, measured half-lives of first 2⁺ state, B(E2). ^{74,76,78,80}Zn, ⁸⁰Ga, ⁸⁰Rb, ¹⁰⁸Pd, ¹²⁰Sn; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309

KEYNUMBERS AND KEYWORDS

A=80 (continued)

^{80}Br	2009EL02	NUCLEAR REACTIONS $\text{Se}(p, X)^{75}\text{Br} / ^{76}\text{Br} / ^{77}\text{Br} / ^{80}\text{Br} / ^{82}\text{Br} / ^{73}\text{Se} / ^{75}\text{Se} / ^{71}\text{As} / ^{72}\text{As} / ^{76}\text{As} / ^{77}\text{As}$, $E < 62$ MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71
^{80}Kr	2009PI01	RADIOACTIVITY $^{80}\text{Rb}(\beta^+)$; measured daughter nucleus recoil angular distributions, recoil asymmetry; deduced tensor interaction constraints. Spin-polarized nucleus. Comparison with standard model predictions. JOUR PRVCA 79 015501
^{80}Rb	2009PI01	RADIOACTIVITY $^{80}\text{Rb}(\beta^+)$; measured daughter nucleus recoil angular distributions, recoil asymmetry; deduced tensor interaction constraints. Spin-polarized nucleus. Comparison with standard model predictions. JOUR PRVCA 79 015501
	2009VA01	NUCLEAR REACTIONS $^{120}\text{Sn}(^{74}\text{Zn}, ^{74}\text{Zn}')$, $E=2.87$ MeV / nucleon; $^{120}\text{Sn}(^{76}\text{Zn}, ^{76}\text{Zn}')$, $E=2.83$ MeV / nucleon; $^{108}\text{Pd}(^{78}\text{Zn}, ^{78}\text{Zn}')$, $E=2.87$ MeV / nucleon; $^{108}\text{Pd}(^{80}\text{Zn}, ^{80}\text{Zn}')$, $E=2.79$ MeV / nucleon; measured $E\gamma$, $I\gamma$, charged particle spectra, (particle)- γ coin, measured half-lives of first 2^+ state, $B(E2)$. $^{74,76,78,80}\text{Zn}$, ^{80}Ga , ^{80}Rb , ^{108}Pd , ^{120}Sn ; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of $B(E2)$ values. Comparison with shell-model calculations. JOUR PRVCA 79 014309
^{80}Sr	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, X)$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
^{80}Y	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, X)$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
	2009ST04	NUCLEAR REACTIONS $^9\text{Be}(^{124}\text{Xe}, X)^{73}\text{As} / ^{74}\text{Se} / ^{76}\text{Br} / ^{77}\text{Kr} / ^{78}\text{Rb} / ^{79}\text{Sr} / ^{80}\text{Y} / ^{81,82}\text{Zr} / ^{83}\text{Nb} / ^{84}\text{Nb} / ^{84}\text{Mo}$, $E=140$ MeV / nucleon; measured yields. JOUR PRVCA 79 015803
^{80}Zr	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, X)$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=81

^{81}Zn	2008BA54	ATOMIC MASSES $^{71,72,73,74,75,76,77,78,79,80,81}\text{Zn}$; measured masses using the ISOLTRAP mass spectrometer. JOUR PRLTA 101 262501
^{81}Y	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, X)$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

KEYNUMBERS AND KEYWORDS

A=81 (continued)

^{81}Zr	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
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A=82

^{82}Br	2009EL02	NUCLEAR REACTIONS $\text{Se}(\text{p}, \text{X})^{75}\text{Br}$ / ^{76}Br / ^{77}Br / ^{80}Br / ^{82}Br / ^{73}Se / ^{75}Se / ^{71}As / ^{72}As / ^{76}As / ^{77}As , $E < 62$ MeV; measured $E\gamma$, $I\gamma$, excitation functions. JOUR RAACA 97 71
^{82}Rb	2009PI02	RADIOACTIVITY $^{82}\text{Sr}(\text{EC})$; measured half-life. JOUR ARISE 67 636
^{82}Sr	2009PI02	RADIOACTIVITY $^{82}\text{Sr}(\text{EC})$; measured half-life. JOUR ARISE 67 636

A=83

^{83}Zr	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
^{83}Nb	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=84

^{84}Kr	2009RE03	ATOMIC MASSES $^{84,86}\text{Kr}$, $^{129,132}\text{Xe}$; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012506
^{84}Y	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{84}Zr	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
^{84}Nb	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

KEYNUMBERS AND KEYWORDS

A=84 (continued)

⁸⁴Mo 2009ST04 RADIOACTIVITY ⁸⁰Y, ⁸¹Zr, ^{83,84}Nb, ⁸⁴Mo(EC), (β^+) [from ⁹Be(¹²⁴Xe, X), E=140 MeV / nucleon]; measured E γ , (particle)- γ coin, (particle)- β coin, half-life. ⁶⁴Ge, ⁶⁸Se, ⁷²Kr, ⁷⁶Sr, ⁸⁰Zr, ⁸⁴Mo, ⁸⁸Ru;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803

A=85

⁸⁵Sr 2009LU03 NUCLEAR REACTIONS ⁸⁶Sr, ¹⁸⁴Os(n, 2n), ¹⁹⁰Os(n, p), E=13.5-14.8 MeV; measured E γ , I γ , cross sections using the activation technique. Compared results to model calculations, existing data, and evaluated databases. JOUR JRNC D 279 443

⁸⁵Y 2009RU03 NUCLEAR REACTIONS ⁷⁶Ge(¹⁴N, 4n), E=44-54 MeV; measured σ (E); ⁵²Cr(³⁷Cl, X)⁸⁵Y / ⁸⁶Y, E=115 MeV; measured E γ , I γ , $\gamma\gamma$ -, (neutron) γ -coin using GASP array, NE213 and HPGe detectors. ^{85,86}Y deduced levels, J, π , configurations, multipolarities, branching fraction, T_{1/2}. Comparison with shell model calculations. JOUR NUPAB 818 1

A=86

⁸⁶Kr 2009RE03 ATOMIC MASSES ^{84,86}Kr, ^{129,132}Xe; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012506

⁸⁶Y 2009RU03 NUCLEAR REACTIONS ⁷⁶Ge(¹⁴N, 4n), E=44-54 MeV; measured σ (E); ⁵²Cr(³⁷Cl, X)⁸⁵Y / ⁸⁶Y, E=115 MeV; measured E γ , I γ , $\gamma\gamma$ -, (neutron) γ -coin using GASP array, NE213 and HPGe detectors. ^{85,86}Y deduced levels, J, π , configurations, multipolarities, branching fraction, T_{1/2}. Comparison with shell model calculations. JOUR NUPAB 818 1

A=87

⁸⁷Zr 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=88

⁸⁸Nb 2009GA02 NUCLEAR REACTIONS ⁷⁴Se(¹⁸O, 3np), E=74 MeV; measured E γ , I γ , excitation function. ⁸⁸Nb; measured half-life. JOUR RAACA 97 79

⁸⁸Mo 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

⁸⁸Tc 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

KEYNUMBERS AND KEYWORDS

A=88 (continued)

^{88}Ru	2009ST04	RADIOACTIVITY ^{80}Y , ^{81}Zr , $^{83,84}\text{Nb}$, $^{84}\text{Mo}(\text{EC})$, (β^+) [from $^9\text{Be}(^{124}\text{Xe}, \text{X})$, $E=140$ MeV / nucleon]; measured $E\gamma$, (particle)- γ coin, (particle)- β coin, half-life. ^{64}Ge , ^{68}Se , ^{72}Kr , ^{76}Sr , ^{80}Zr , ^{84}Mo , ^{88}Ru ;systematics of half-lives and yrast states. Comparisons with QRPA predictions. JOUR PRVCA 79 015803
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A=89

^{89}Y	2009BE03	NUCLEAR REACTIONS $^{89}\text{Y}(\gamma, \gamma')$, $E=3-13$ MeV; measured $E\gamma$, $I\gamma$, σ , widths, angular distributions, level densities. ^{89}Y ; deduced levels. Comparison with quasiparticle-random-phase approximation predictions. JOUR PRVCA 79 014303
^{89}Mo	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{89}Tc	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=90

^{90}Zr	2008SC20	NUCLEAR REACTIONS $^{90}\text{Zr}(\gamma, \gamma')$, $E=7.9, 9.0, 13.2$ MeV; measured $E\gamma$, $I\gamma$, σ , angular distributions, widths; deduced levels, J , π . Comparisons with calculations for ^{88}Sr , ^{90}Zr . JOUR PRVCA 78 064314
^{90}Tc	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{90}Ru	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=91

^{91}Tc	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{91}Ru	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

KEYNUMBERS AND KEYWORDS

A=92

^{92}Sr	2009RZ01	RADIOACTIVITY $^{248}\text{Cm}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(\text{lin pol})$. $^{92,94,96}\text{Sr}$; deduced levels, J , π , multipolarity, bands, configurations. Comparison with shell-model calculations. JOUR PRVCA 79 024319
^{92}Zr	2008ME15	NUCLEAR REACTIONS ^{12}C , ^{40}Ca , ^{93}Nb , $\text{Pb}(\text{polarized } \gamma, \text{p}\pi^0)$, $E=0.6\text{-}2.2$ GeV bremsstrahlung; measured invariant- and missing-mass spectra, η -meson production σ , $\sigma(\theta)$. Comparison with BUU transport model and other data. JOUR ZAANE 38 195
^{92}Tc	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{92}Ru	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{92}Rh	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=93

^{93}Nb	2007OK06	NUCLEAR MOMENTS ^{93}Nb ; measured temperature dependence of nuclear spin-spin relaxation rate. JOUR ZNASE 62a 627
^{93}Ru	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{93}Rh	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=94

^{94}Sr	2009RZ01	RADIOACTIVITY $^{248}\text{Cm}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(\text{lin pol})$. $^{92,94,96}\text{Sr}$; deduced levels, J , π , multipolarity, bands, configurations. Comparison with shell-model calculations. JOUR PRVCA 79 024319
^{94}Zr	2008EL09	NUCLEAR REACTIONS $^{94}\text{Zr}(\text{n}, \text{n}'\gamma)$, $E=2.5\text{-}4.0$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, angular distributions, half-lives by Doppler shift attenuation; deduced levels, J , π , multipolarities, mixing ratios, $B(\text{M}1)$, $B(\text{E}2)$. $^{90,92,96,98,100,102}\text{Zr}$, ^{96}Ru , $^{94,96}\text{Mo}$; systematics. Comparison with IBA and shell model calculations. JOUR PRVCA 78 064303
^{94}Rh	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
^{94}Pd	2008WE10	ATOMIC MASSES ^{84}Y , ^{87}Zr , $^{88,89}\text{Mo}$, $^{88,89,90,91,92}\text{Tc}$, $^{90,91,92,93}\text{Ru}$, $^{92,93,94,95}\text{Rh}$, $^{94,95,95m,96}\text{Pd}$; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

KEYNUMBERS AND KEYWORDS

A=95

- ⁹⁵Rh 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
- ⁹⁵Pd 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310

A=96

- ⁹⁶Sr 2009RZ01 RADIOACTIVITY ²⁴⁸Cm(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(\text{lin pol})$. ^{92,94,96}Sr; deduced levels, J, π , multipolarity, bands, configurations. Comparison with shell-model calculations. JOUR PRVCA 79 024319
- ⁹⁶Nb 2009RE01 NUCLEAR REACTIONS ⁹⁹Tc(n, n' γ), (n, p), (n, α), E=threshold-20.6 MeV; measured σ using the activation method. Comparison with TALYS and STAPRE calculations. JOUR NUPAB 815 1
- ⁹⁶Mo 2009SH05 NUCLEAR REACTIONS ⁹⁵Mo(n, γ), E<2 keV; measured E γ , I γ , from multi-step γ cascades for s- and p-wave neutron resonances below 2 keV. Compared γ spectral shapes to DICEBOX statistical model simulations. Compared multi-step γ -cascade spectra for different multiplicities from various resonances with predictions of different photon strength function models. JOUR PRVCA 79 024301
- ⁹⁶Ru 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- ⁹⁶Pd 2008WE10 ATOMIC MASSES ⁸⁴Y, ⁸⁷Zr, ^{88,89}Mo, ^{88,89,90,91,92}Tc, ^{90,91,92,93}Ru, ^{92,93,94,95}Rh, ^{94,95,95m,96}Pd; measured masses. Comparison with evaluated data. JOUR PRVCA 78 054310
- ⁹⁶Cd 2008BA53 NUCLEAR REACTIONS ⁹Be(¹¹²Sn, X)⁹⁶Cd / ⁹⁸In / ¹⁰⁰Sn, E=120 MeV / nucleon; measured cross sections. JOUR PRLTA 101 252501
- 2008BA53 RADIOACTIVITY ⁹⁶Cd, ⁹⁸In, ¹⁰⁰Sn; measured decay spectra, half-lives. JOUR PRLTA 101 252501

A=97

No references found

KEYNUMBERS AND KEYWORDS

A=98

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| ^{98}Ru | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{98}In | 2008BA53 | NUCLEAR REACTIONS $^9\text{Be}(^{112}\text{Sn}, \text{X})^{96}\text{Cd} / ^{98}\text{In} / ^{100}\text{Sn}$, E=120 MeV / nucleon; measured cross sections. JOUR PRLTA 101 252501 |
| | 2008BA53 | RADIOACTIVITY ^{96}Cd , ^{98}In , ^{100}Sn ; measured decay spectra, half-lives. JOUR PRLTA 101 252501 |

A=99

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| ^{99}Mo | 2009NG01 | NUCLEAR REACTIONS $^{98}\text{Mo}(n, \gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, cross section; deduced resonance integral. Compared results to existing data and evaluated databases. JOUR NIMBE 267 462 |
| | 2009RE01 | NUCLEAR REACTIONS $^{99}\text{Tc}(n, n'\gamma)$, (n, p), (n, α), E=threshold-20.6 MeV; measured σ using the activation method. Comparison with TALYS and STAPRE calculations. JOUR NUPAB 815 1 |
| ^{99}Tc | 2009RE01 | NUCLEAR REACTIONS $^{99}\text{Tc}(n, n'\gamma)$, (n, p), (n, α), E=threshold-20.6 MeV; measured σ using the activation method. Comparison with TALYS and STAPRE calculations. JOUR NUPAB 815 1 |

A=100

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| ^{100}Mo | 2008SJ01 | RADIOACTIVITY $^{100}\text{Tc}(\text{EC})$; measured X-ray spectra, $E\gamma$, $I\gamma$; deduced branching ratio, B(GT). JOUR PRVCA 78 064317 |
| ^{100}Tc | 2008SJ01 | RADIOACTIVITY $^{100}\text{Tc}(\text{EC})$; measured X-ray spectra, $E\gamma$, $I\gamma$; deduced branching ratio, B(GT). JOUR PRVCA 78 064317 |
| ^{100}Ru | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{100}Sn | 2008BA53 | NUCLEAR REACTIONS $^9\text{Be}(^{112}\text{Sn}, \text{X})^{96}\text{Cd} / ^{98}\text{In} / ^{100}\text{Sn}$, E=120 MeV / nucleon; measured cross sections. JOUR PRLTA 101 252501 |
| | 2008BA53 | RADIOACTIVITY ^{96}Cd , ^{98}In , ^{100}Sn ; measured decay spectra, half-lives. JOUR PRLTA 101 252501 |

KEYNUMBERS AND KEYWORDS

A=101

No references found

A=102

- ¹⁰²Ru 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values.
Coulomb excitation. Comparisons with Interacting Boson Model.
JOUR PRVCA 78 051302
- ¹⁰²Pd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values.
Coulomb excitation. Comparisons with Interacting Boson Model.
JOUR PRVCA 78 051302

A=103

No references found

A=104

- ¹⁰⁴Ru 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values.
Coulomb excitation. Comparisons with Interacting Boson Model.
JOUR PRVCA 78 051302
- ¹⁰⁴Pd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values.
Coulomb excitation. Comparisons with Interacting Boson Model.
JOUR PRVCA 78 051302
- ¹⁰⁴Cd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values.
Coulomb excitation. Comparisons with Interacting Boson Model.
JOUR PRVCA 78 051302

KEYNUMBERS AND KEYWORDS

A=105

No references found

A=106

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| ^{106}Mo | 2008XU08 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured E_γ , I_γ , $\gamma\gamma$ -coin. ^{108}Tc ; deduced levels, J, π , bands, B(E1) / B(E2) ratios. $^{106,107}\text{Mo}$, ^{107}Tc ; deduced bands. Comparison with particle-rotor model calculations. JOUR PRVCA 78 064301 |
| ^{106}Ru | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ , I_γ , half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{106}Pd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ , I_γ , half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{106}Cd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ , I_γ , half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |

A=107

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| ^{107}Mo | 2008XU08 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured E_γ , I_γ , $\gamma\gamma$ -coin. ^{108}Tc ; deduced levels, J, π , bands, B(E1) / B(E2) ratios. $^{106,107}\text{Mo}$, ^{107}Tc ; deduced bands. Comparison with particle-rotor model calculations. JOUR PRVCA 78 064301 |
| ^{107}Tc | 2008XU08 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured E_γ , I_γ , $\gamma\gamma$ -coin. ^{108}Tc ; deduced levels, J, π , bands, B(E1) / B(E2) ratios. $^{106,107}\text{Mo}$, ^{107}Tc ; deduced bands. Comparison with particle-rotor model calculations. JOUR PRVCA 78 064301 |

A=108

- ^{108}Zr 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ^{108}Tc 2008XU08 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{108}Tc ; deduced levels, J, π , bands, B(E1) / B(E2) ratios. $^{106,107}\text{Mo}$, ^{107}Tc ; deduced bands. Comparison with particle-rotor model calculations. JOUR PRVCA 78 064301
- ^{108}Ru 2008DE30 NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- 2009LU01 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{108,110,112}\text{Ru}$; deduced levels, J, π , rotational bands, B(E2) / B(M1). Tilted axis cranking and RPA calculations. JOUR PYLBB 670 307
- ^{108}Pd 2008DE30 NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- 2009VA01 NUCLEAR REACTIONS $^{120}\text{Sn}(^{74}\text{Zn}, ^{74}\text{Zn}')$, E=2.87 MeV / nucleon; $^{120}\text{Sn}(^{76}\text{Zn}, ^{76}\text{Zn}')$, E=2.83 MeV / nucleon; $^{108}\text{Pd}(^{78}\text{Zn}, ^{78}\text{Zn}')$, E=2.87 MeV / nucleon; $^{108}\text{Pd}(^{80}\text{Zn}, ^{80}\text{Zn}')$, E=2.79 MeV / nucleon; measured $E\gamma$, $I\gamma$, charged particle spectra, (particle)- γ coin, measured half-lives of first 2^+ state, B(E2). $^{74,76,78,80}\text{Zn}$, ^{80}Ga , ^{80}Rb , ^{108}Pd , ^{120}Sn ; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309

KEYNUMBERS AND KEYWORDS

A=108 (continued)

¹⁰⁸Cd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302

A=109

¹⁰⁹Pd 2008ZH29 NUCLEAR REACTIONS ¹¹⁰Pd, ¹¹²Cd, ¹¹³In(γ , n), E=9-18 MeV; measured E γ , I γ , cross sections for isomeric state population. JOUR BRSPE 72 1548

¹⁰⁹Ag 2008VI09 RADIOACTIVITY ¹⁰⁹Ag, ¹²³Te, ¹⁴⁷Pm(IT); measured E γ , I γ , X-ray spectra, e γ -, eX-ray-coin. Deduced hypersatellite energy shift. JOUR BRSPE 72 1559

A=110

¹¹⁰Nb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

¹¹⁰Ru 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302

 2009LU01 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ^{108,110,112}Ru; deduced levels, J, π , rotational bands, B(E2) / B(M1). Tilted axis cranking and RPA calculations. JOUR PYLBB 670 307

KEYNUMBERS AND KEYWORDS

A=110 (continued)

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| ^{110}Pd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{110}Cd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{110}In | 2009KH01 | NUCLEAR REACTIONS $\text{Sn}(p, X)^{117}\text{Sb} / ^{118}\text{Sb} / ^{120}\text{Sb} / ^{122}\text{Sb} / ^{124}\text{Sb} / ^{113}\text{Sn} / ^{117}\text{Sn} / ^{110}\text{In} / ^{111}\text{In}$; E < 40 MeV; measured $E\gamma$, $I\gamma$, excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23 |

A=111

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| ^{111}Nb | 2008BE33 | NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605 |
| ^{111}Cd | 2008ZH29 | NUCLEAR REACTIONS $^{110}\text{Pd}, ^{112}\text{Cd}, ^{113}\text{In}(\gamma, n)$, E=9-18 MeV; measured $E\gamma$, $I\gamma$, cross sections for isomeric state population. JOUR BRSPE 72 1548 |
| ^{111}In | 2009KH01 | NUCLEAR REACTIONS $\text{Sn}(p, X)^{117}\text{Sb} / ^{118}\text{Sb} / ^{120}\text{Sb} / ^{122}\text{Sb} / ^{124}\text{Sb} / ^{113}\text{Sn} / ^{117}\text{Sn} / ^{110}\text{In} / ^{111}\text{In}$; E < 40 MeV; measured $E\gamma$, $I\gamma$, excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23 |

KEYNUMBERS AND KEYWORDS

A=112

^{112}Ru	2008DE30	<p>NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ, I_γ, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π, B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values.</p> <p>Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302</p>
	2009LU01	<p>RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured E_γ, I_γ, $\gamma\gamma$-coin using Gammasphere array. $^{108,110,112}\text{Ru}$; deduced levels, J, π, rotational bands, B(E2) / B(M1). Tilted axis cranking and RPA calculations. JOUR PYLBB 670 307</p>
^{112}Pd	2008DE30	<p>NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ, I_γ, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π, B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values.</p> <p>Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302</p>
^{112}Cd	2008DE30	<p>NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured E_γ, I_γ, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π, B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values.</p> <p>Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302</p>
^{112}In	2008ZH29	<p>NUCLEAR REACTIONS ^{110}Pd, ^{112}Cd, $^{113}\text{In}(\gamma, n)$, E=9-18 MeV; measured E_γ, I_γ, cross sections for isomeric state population. JOUR BRSPE 72 1548</p>

A=113

^{113}Mo	2008BE33	<p>NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
^{113}Cd	2009DA03	<p>RADIOACTIVITY $^{113}\text{Cd}(\beta^-)$; measured E_β, $T_{1/2}$, Q-value using CdZnTe detectors in underground laboratory. JOUR NUPAB 818 264</p>

KEYNUMBERS AND KEYWORDS

A=113 (continued)

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| ^{113}In | 2009DA03 | RADIOACTIVITY $^{113}\text{Cd}(\beta^-)$; measured $E\beta$, $T_{1/2}$, Q-value using CdZnTe detectors in underground laboratory. JOUR NUPAB 818 264 |
| ^{113}Sn | 2009KH01 | NUCLEAR REACTIONS $\text{Sn}(p, X)^{117}\text{Sb} / ^{118}\text{Sb} / ^{120}\text{Sb} / ^{122}\text{Sb} / ^{124}\text{Sb} / ^{113}\text{Sn} / ^{117}\text{Sn} / ^{110}\text{In} / ^{111}\text{In}$; $E < 40$ MeV; measured $E\gamma$, $I\gamma$, excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23 |
| ^{113}Sb | 2009WA02 | NUCLEAR REACTIONS Yb, Lu, W, Os(^{136}Xe , X) $^{121}\text{Sb} / ^{123}\text{Sb}$, $E=6.0-6.2$ MeV / nucleon; measured $E\gamma$, $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. $^{120}\text{Sn}(^7\text{Li}, 2n\alpha)$, $E=58$ MeV; $^{122}\text{Sn}(^7\text{Li}, 2n\alpha)$, $E=54$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. $^{121,123}\text{Sb}$; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ^{120}Sn and ^{122}Sn and with multistate mixing calculations. 113,115,117,119,121,123,125,127,129,131,133Sb; systematics. JOUR PRVCA 79 024306 |

A=114

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|-------------------|----------|---|
| ^{114}Ru | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, $E=66$ MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, $E=69$ MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{114}Pd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, $E=66$ MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, $E=69$ MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{114}Cd | 2008DE30 | NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, $E=66$ MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, $E=69$ MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302 |
| ^{114}In | 2009SA06 | NUCLEAR REACTIONS ^7Li , C(p, n), $E=297$ MeV; ^{58}Ni , ^{70}Zn , ^{114}Cd , ^{118}Sn , $^{120}\text{Sn}(p, n)$, $E=198, 297$ MeV; measured neutron TOF and $\sigma(E, \theta)$. ^7Be , ^{12}N , ^{13}N , ^{58}Cu , ^{70}Ga , ^{114}In , ^{118}Sb , ^{120}Sb ; deduced B(GT). JOUR PRVCA 79 024602 |

A=115

- ¹¹⁵Tc 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁵Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁵Sb 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

A=116

- ¹¹⁶Tc 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁶Pd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- ¹¹⁶Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁶Cd 2008DE30 NUCLEAR REACTIONS ⁹Be(¹¹⁰Pd, ¹¹⁰Pd'), E=66 MeV / nucleon; ⁹Be(¹¹⁴Pd, ¹¹⁴Pd'), E=69 MeV / nucleon; measured E γ , I γ , half-lives using recoil distance doppler shift method. ^{110,114}Pd; deduced levels, J, π , B(E2). ^{102,104,106,108,112,116}Pd, ^{104,106,108,110,112,114,116,118}Cd, ^{96,98,100,102,104,106,108,110,112,114}Ru; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- ¹¹⁶Sn 2009AG01 NUCLEAR REACTIONS ¹¹⁷Sn(³He, $\alpha\gamma$), (³He, ³He' γ), E=38 MeV; measured E γ , I γ , particle spectra, (particle) γ -coin. ^{116,117}Sn; deduced excitation energies, entropies, level densities, microcanonical temperatures. JOUR PRVCA 79 014320

A=116 (*continued*)

- 2009CH06 NUCLEAR REACTIONS $^{116}\text{Sn}(^6\text{Li}, ^6\text{Li}')$, E=240 MeV; measured ^6Li spectra, angular distributions, cross sections. ^{116}Sn ; deduced energies, widths, energy weighted sum strength distributions for isoscalar E0, E1, E2, E3 giant resonances using double-folding model analysis. DWBA analysis of angular distributions. Comparison with corresponding data from inelastic α scattering. JOUR PRVCA 79 024320

A=117

- ^{117}Tc 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ^{117}Rh 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=117 (continued)

- ¹¹⁷Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁷In 2008VI10 NUCLEAR REACTIONS ¹¹⁸Sn(γ , p), Sb(γ , α)¹¹⁷In, ¹⁹⁷Au(γ , n), E=15, 22 MeV; measured E γ , I γ , isomeric ratios. JOUR BRSPE 72 1569
- ¹¹⁷Sn 2009AG01 NUCLEAR REACTIONS ¹¹⁷Sn(³He, $\alpha\gamma$), (³He, ³He' γ), E=38 MeV; measured E γ , I γ , particle spectra, (particle) γ -coin. ^{116,117}Sn; deduced excitation energies, entropies, level densities, microcanonical temperatures. JOUR PRVCA 79 014320
- 2009KH01 NUCLEAR REACTIONS Sn(p, X)¹¹⁷Sb / ¹¹⁸Sb / ¹²⁰Sb / ¹²²Sb / ¹²⁴Sb / ¹¹³Sn / ¹¹⁷Sn / ¹¹⁰In / ¹¹¹In; E < 40 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23
- ¹¹⁷Sb 2009KH01 NUCLEAR REACTIONS Sn(p, X)¹¹⁷Sb / ¹¹⁸Sb / ¹²⁰Sb / ¹²²Sb / ¹²⁴Sb / ¹¹³Sn / ¹¹⁷Sn / ¹¹⁰In / ¹¹¹In; E < 40 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23
- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, γ (t), half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

A=118

- ¹¹⁸Ru 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁸Rh 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁸Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=118 (continued)

- 2008DE30 NUCLEAR REACTIONS $^9\text{Be}(^{110}\text{Pd}, ^{110}\text{Pd}')$, E=66 MeV / nucleon; $^9\text{Be}(^{114}\text{Pd}, ^{114}\text{Pd}')$, E=69 MeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives using recoil distance doppler shift method. $^{110,114}\text{Pd}$; deduced levels, J, π , B(E2). $^{102,104,106,108,112,116}\text{Pd}$, $^{104,106,108,110,112,114,116,118}\text{Cd}$, $^{96,98,100,102,104,106,108,110,112,114}\text{Ru}$; systematics of B(E2) values. Coulomb excitation. Comparisons with Interacting Boson Model. JOUR PRVCA 78 051302
- ^{118}In 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ^{118}Sn 2008GU17 NUCLEAR REACTIONS $^{120}\text{Sn}(p, t)$, E=21 MeV; measured triton spectra, σ , $\sigma(\theta)$; deduced levels, J, π . Comparison with shell-model, distorted-wave Born approximation calculations. JOUR PRVCA 78 064608
- ^{118}Sb 2009KH01 NUCLEAR REACTIONS $\text{Sn}(p, \text{X})^{117}\text{Sb} / ^{118}\text{Sb} / ^{120}\text{Sb} / ^{122}\text{Sb} / ^{124}\text{Sb} / ^{113}\text{Sn} / ^{117}\text{Sn} / ^{110}\text{In} / ^{111}\text{In}$; E < 40 MeV; measured $E\gamma$, $I\gamma$, excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23
- 2009SA06 NUCLEAR REACTIONS $^7\text{Li}, \text{C}(p, n)$, E=297 MeV; $^{58}\text{Ni}, ^{70}\text{Zn}, ^{114}\text{Cd}, ^{118}\text{Sn}, ^{120}\text{Sn}(p, n)$, E=198, 297 MeV; measured neutron TOF and $\sigma(E, \theta)$. $^7\text{Be}, ^{12}\text{N}, ^{13}\text{N}, ^{58}\text{Cu}, ^{70}\text{Ga}, ^{114}\text{In}, ^{118}\text{Sb}, ^{120}\text{Sb}$; deduced B(GT). JOUR PRVCA 79 024602

A=119

- ¹¹⁹Ru 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁹Rh 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁹Pd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=119 (continued)

- ¹¹⁹Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁹In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹¹⁹Sb 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

KEYNUMBERS AND KEYWORDS

A=120

¹²⁰ Rh	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁰ Pd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁰ Cd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=120 (continued)

- ¹²⁰In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁰Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009VA01 NUCLEAR REACTIONS ¹²⁰Sn(⁷⁴Zn, ⁷⁴Zn'), E=2.87 MeV / nucleon; ¹²⁰Sn(⁷⁶Zn, ⁷⁶Zn'), E=2.83 MeV / nucleon; ¹⁰⁸Pd(⁷⁸Zn, ⁷⁸Zn'), E=2.87 MeV / nucleon; ¹⁰⁸Pd(⁸⁰Zn, ⁸⁰Zn'), E=2.79 MeV / nucleon; measured E γ , I γ , charged particle spectra, (particle)- γ coin, measured half-lives of first 2⁺ state, B(E2). ^{74,76,78,80}Zn, ⁸⁰Ga, ⁸⁰Rb, ¹⁰⁸Pd, ¹²⁰Sn; deduced levels. Fe, Ni, Zn, Ge, Se; systematics of B(E2) values. Comparison with shell-model calculations. JOUR PRVCA 79 014309
- ¹²⁰Sb 2009KH01 NUCLEAR REACTIONS Sn(p, X)¹¹⁷Sb / ¹¹⁸Sb / ¹²⁰Sb / ¹²²Sb / ¹²⁴Sb / ¹¹³Sn / ¹¹⁷Sn / ¹¹⁰In / ¹¹¹In; E < 40 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23
- 2009SA06 NUCLEAR REACTIONS ⁷Li, C(p, n), E=297 MeV; ⁵⁸Ni, ⁷⁰Zn, ¹¹⁴Cd, ¹¹⁸Sn, ¹²⁰Sn(p, n), E=198, 297 MeV; measured neutron TOF and $\sigma(E, \theta)$. ⁷Be, ¹²N, ¹³N, ⁵⁸Cu, ⁷⁰Ga, ¹¹⁴In, ¹¹⁸Sb, ¹²⁰Sb; deduced B(GT). JOUR PRVCA 79 024602

A=121

¹²¹ Rh	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²¹ Pd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²¹ Cd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=121 (continued)

- ¹²¹In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²¹Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²¹Sb 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

A=122

¹²² Rh	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²² Pd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²² Ag	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

KEYNUMBERS AND KEYWORDS

A=122 (continued)

- ¹²²Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²²In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²²Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²²Sb 2009KH01 NUCLEAR REACTIONS Sn(p, X)¹¹⁷Sb / ¹¹⁸Sb / ¹²⁰Sb / ¹²²Sb / ¹²⁴Sb / ¹¹³Sn / ¹¹⁷Sn / ¹¹⁰In / ¹¹¹In; E < 40 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23

KEYNUMBERS AND KEYWORDS

A=122 (continued)

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|-------------------|----------|--|
| ^{122}Te | 2008HI17 | NUCLEAR REACTIONS $^{122,124,126,128,130}\text{Te}(n, n'\gamma)$, $E=1.7\text{-}3.4$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler Shift Attenuation Method; deduced levels, J, π , multipolarities, mixing ratios, B(M1), B(E2), mixed-symmetry states. Comparison with Interacting Boson Model calculations. JOUR PRVCA 78 054320 |
| ^{122}La | 2008FA13 | NUCLEAR REACTIONS $^{92}\text{Mo}(^{40}\text{Ca}, np2\alpha)$, $E=190, 200$ MeV; measured $E\gamma$, $I\gamma$, $n\gamma$ -, (X-ray) γ -, (charged particle) γ -coin. ^{122}La deduced levels, J, π , band configurations; calculated deformation using a cranked shell model. JOUR ZAANE 38 43 |

A=123

- | | | |
|-------------------|----------|--|
| ^{123}Pd | 2008BE33 | NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, $E=1$ GeV / nucleon; measured σ . JOUR PRVCA 78 054605 |
| ^{123}Ag | 2008BE33 | NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, $E=1$ GeV / nucleon; measured σ . JOUR PRVCA 78 054605 |

A=123 (continued)

- ¹²³Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2 α), E=58 MeV; ¹²²Sn(⁷Li, 2 α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306
- ¹²³Te 2008VI09 RADIOACTIVITY ¹⁰⁹Ag, ¹²³Te, ¹⁴⁷Pm(IT); measured E γ , I γ , X-ray spectra, e γ -, eX-ray-coin. Deduced hypersatellite energy shift. JOUR BRSPE 72 1559

A=124

- ¹²⁴Pd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=124 (continued)

- ¹²⁴Ag 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁴Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁴In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=124 (continued)

- ¹²⁴Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁴Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009KH01 NUCLEAR REACTIONS Sn(p, X)¹¹⁷Sb / ¹¹⁸Sb / ¹²⁰Sb / ¹²²Sb / ¹²⁴Sb / ¹¹³Sn / ¹¹⁷Sn / ¹¹⁰In / ¹¹¹In; E < 40 MeV; measured E γ , I γ , excitation functions using the stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 267 23
- ¹²⁴Te 2008HI17 NUCLEAR REACTIONS ^{122,124,126,128,130}Te(n, n' γ), E=1.7-3.4 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler Shift Attenuation Method; deduced levels, J, π , multipolarities, mixing ratios, B(M1), B(E2), mixed-symmetry states. Comparison with Interacting Boson Model calculations. JOUR PRVCA 78 054320

A=125

- ¹²⁵Pd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁵Ag 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁵Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=125 (continued)

¹²⁵ In	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁵ Sn	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁵ Sb	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=125 (continued)

- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(^{136}Xe , X) ^{121}Sb / ^{123}Sb ,
E=6.0-6.2 MeV / nucleon; measured $E\gamma$, $\gamma\gamma$ -coin, $\gamma(t)$, half-lives;
deduced isomers. $^{120}\text{Sn}(^7\text{Li}, 2n\alpha)$, E=58 MeV; $^{122}\text{Sn}(^7\text{Li}, 2n\alpha)$, E=54
MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, conversion electron spectra, half-lives
by decay curve analyses and centroid-shift methods, angular
correlations, DCO, conversion coefficients. $^{121,123}\text{Sb}$; deduced levels, J,
 π , multipolarity, mixing ratios, configurations. Comparisons with ^{120}Sn
and ^{122}Sn and with multistate mixing calculations.
 $^{113,115,117,119,121,123,125,127,129,131,133}\text{Sb}$; systematics. JOUR PRVCA 79
024306
- ^{125}Te 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs}$ / ^{133}Cs / ^{134}Cs / ^{135}Cs
/ ^{136}Cs / ^{129}Xe / ^{130}Xe / ^{131}Xe / ^{132}Xe / ^{133}Xe / ^{134}Xe / ^{135}Xe / ^{127}I
/ ^{128}I / ^{129}I / ^{130}I / ^{131}I / ^{132}I / ^{133}I / ^{134}I / ^{135}I / ^{136}I / ^{125}Te / ^{126}Te
/ ^{127}Te / ^{128}Te / ^{129}Te / ^{130}Te / ^{131}Te / ^{132}Te / ^{133}Te / ^{134}Te / ^{135}Te
/ ^{123}Sb / ^{124}Sb / ^{125}Sb / ^{126}Sb / ^{127}Sb / ^{128}Sb / ^{129}Sb / ^{130}Sb / ^{131}Sb
/ ^{132}Sb / ^{133}Sb / ^{134}Sb / ^{120}Sn / ^{121}Sn / ^{122}Sn / ^{123}Sn / ^{124}Sn / ^{125}Sn
/ ^{126}Sn / ^{127}Sn / ^{128}Sn / ^{129}Sn / ^{130}Sn / ^{131}Sn / ^{132}Sn / ^{118}In / ^{119}In
/ ^{120}In / ^{121}In / ^{122}In / ^{123}In / ^{124}In / ^{125}In / ^{126}In / ^{127}In / ^{128}In /
 ^{129}In / ^{130}In / ^{131}In / ^{115}Cd / ^{116}Cd / ^{117}Cd / ^{118}Cd / ^{119}Cd / ^{120}Cd
/ ^{121}Cd / ^{122}Cd / ^{123}Cd / ^{124}Cd / ^{125}Cd / ^{126}Cd / ^{127}Cd / ^{128}Cd /
 ^{129}Cd / ^{130}Cd / ^{122}Ag / ^{123}Ag / ^{124}Ag / ^{125}Ag / ^{126}Ag / ^{127}Ag /
 ^{128}Ag / ^{119}Pd / ^{120}Pd / ^{121}Pd / ^{122}Pd / ^{123}Pd / ^{124}Pd / ^{125}Pd /
 ^{117}Rh / ^{118}Rh / ^{119}Rh / ^{120}Rh / ^{121}Rh / ^{122}Rh / ^{118}Ru / ^{119}Ru /
 ^{115}Tc / ^{116}Tc / ^{117}Tc / ^{113}Mo / ^{110}Nb / ^{111}Nb / ^{108}Zr , E=1 GeV /
nucleon; measured σ . JOUR PRVCA 78 054605

A=126

- ^{126}Ag 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, \text{X})^{132}\text{Cs}$ / ^{133}Cs / ^{134}Cs / ^{135}Cs
/ ^{136}Cs / ^{129}Xe / ^{130}Xe / ^{131}Xe / ^{132}Xe / ^{133}Xe / ^{134}Xe / ^{135}Xe / ^{127}I
/ ^{128}I / ^{129}I / ^{130}I / ^{131}I / ^{132}I / ^{133}I / ^{134}I / ^{135}I / ^{136}I / ^{125}Te / ^{126}Te
/ ^{127}Te / ^{128}Te / ^{129}Te / ^{130}Te / ^{131}Te / ^{132}Te / ^{133}Te / ^{134}Te / ^{135}Te
/ ^{123}Sb / ^{124}Sb / ^{125}Sb / ^{126}Sb / ^{127}Sb / ^{128}Sb / ^{129}Sb / ^{130}Sb / ^{131}Sb
/ ^{132}Sb / ^{133}Sb / ^{134}Sb / ^{120}Sn / ^{121}Sn / ^{122}Sn / ^{123}Sn / ^{124}Sn / ^{125}Sn
/ ^{126}Sn / ^{127}Sn / ^{128}Sn / ^{129}Sn / ^{130}Sn / ^{131}Sn / ^{132}Sn / ^{118}In / ^{119}In
/ ^{120}In / ^{121}In / ^{122}In / ^{123}In / ^{124}In / ^{125}In / ^{126}In / ^{127}In / ^{128}In /
 ^{129}In / ^{130}In / ^{131}In / ^{115}Cd / ^{116}Cd / ^{117}Cd / ^{118}Cd / ^{119}Cd / ^{120}Cd
/ ^{121}Cd / ^{122}Cd / ^{123}Cd / ^{124}Cd / ^{125}Cd / ^{126}Cd / ^{127}Cd / ^{128}Cd /
 ^{129}Cd / ^{130}Cd / ^{122}Ag / ^{123}Ag / ^{124}Ag / ^{125}Ag / ^{126}Ag / ^{127}Ag /
 ^{128}Ag / ^{119}Pd / ^{120}Pd / ^{121}Pd / ^{122}Pd / ^{123}Pd / ^{124}Pd / ^{125}Pd /
 ^{117}Rh / ^{118}Rh / ^{119}Rh / ^{120}Rh / ^{121}Rh / ^{122}Rh / ^{118}Ru / ^{119}Ru /
 ^{115}Tc / ^{116}Tc / ^{117}Tc / ^{113}Mo / ^{110}Nb / ^{111}Nb / ^{108}Zr , E=1 GeV /
nucleon; measured σ . JOUR PRVCA 78 054605

A=126 (continued)

- ¹²⁶Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁶Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2008HI17 NUCLEAR REACTIONS ^{122,124,126,128,130}Te(n, n' γ), E=1.7-3.4 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler Shift Attenuation Method; deduced levels, J, π , multipolarities, mixing ratios, B(M1), B(E2), mixed-symmetry states. Comparison with Interacting Boson Model calculations. JOUR PRVCA 78 054320

KEYNUMBERS AND KEYWORDS

A=127

¹²⁷ Ag	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁷ Cd	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹²⁷ In	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=127 (continued)

- ¹²⁷Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁷Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

KEYNUMBERS AND KEYWORDS

A=127 (continued)

- ¹²⁷Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹²⁷I 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=128

- ¹²⁸Ag 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=128 (continued)

- ¹²⁸Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009CA02 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹²⁸Cd, E=750 MeV / nucleon; ⁹Be(²³⁸U, X)¹²⁸Cd, E=650 MeV / nucleon; measured E γ , I γ , (particle) γ -, $\gamma\gamma$ -coin, half-lives, internal conversion coefficients. ¹²⁸Cd; deduced levels, J, π . Comparison with large-scale shell model calculations. JOUR PRVCA 79 011301
- ¹²⁸In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=128 (continued)

- 2008HI17 NUCLEAR REACTIONS $^{122,124,126,128,130}\text{Te}(n, n'\gamma)$, $E=1.7\text{-}3.4$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler Shift Attenuation Method; deduced levels, J, π , multipolarities, mixing ratios, B(M1), B(E2), mixed-symmetry states. Comparison with Interacting Boson Model calculations. JOUR PRVCA 78 054320
- ^{128}I 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, $E=1$ GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=129

- ^{129}Cd 2008BE33 NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)^{132}\text{Cs} / ^{133}\text{Cs} / ^{134}\text{Cs} / ^{135}\text{Cs} / ^{136}\text{Cs} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{133}\text{Xe} / ^{134}\text{Xe} / ^{135}\text{Xe} / ^{127}\text{I} / ^{128}\text{I} / ^{129}\text{I} / ^{130}\text{I} / ^{131}\text{I} / ^{132}\text{I} / ^{133}\text{I} / ^{134}\text{I} / ^{135}\text{I} / ^{136}\text{I} / ^{125}\text{Te} / ^{126}\text{Te} / ^{127}\text{Te} / ^{128}\text{Te} / ^{129}\text{Te} / ^{130}\text{Te} / ^{131}\text{Te} / ^{132}\text{Te} / ^{133}\text{Te} / ^{134}\text{Te} / ^{135}\text{Te} / ^{123}\text{Sb} / ^{124}\text{Sb} / ^{125}\text{Sb} / ^{126}\text{Sb} / ^{127}\text{Sb} / ^{128}\text{Sb} / ^{129}\text{Sb} / ^{130}\text{Sb} / ^{131}\text{Sb} / ^{132}\text{Sb} / ^{133}\text{Sb} / ^{134}\text{Sb} / ^{120}\text{Sn} / ^{121}\text{Sn} / ^{122}\text{Sn} / ^{123}\text{Sn} / ^{124}\text{Sn} / ^{125}\text{Sn} / ^{126}\text{Sn} / ^{127}\text{Sn} / ^{128}\text{Sn} / ^{129}\text{Sn} / ^{130}\text{Sn} / ^{131}\text{Sn} / ^{132}\text{Sn} / ^{118}\text{In} / ^{119}\text{In} / ^{120}\text{In} / ^{121}\text{In} / ^{122}\text{In} / ^{123}\text{In} / ^{124}\text{In} / ^{125}\text{In} / ^{126}\text{In} / ^{127}\text{In} / ^{128}\text{In} / ^{129}\text{In} / ^{130}\text{In} / ^{131}\text{In} / ^{115}\text{Cd} / ^{116}\text{Cd} / ^{117}\text{Cd} / ^{118}\text{Cd} / ^{119}\text{Cd} / ^{120}\text{Cd} / ^{121}\text{Cd} / ^{122}\text{Cd} / ^{123}\text{Cd} / ^{124}\text{Cd} / ^{125}\text{Cd} / ^{126}\text{Cd} / ^{127}\text{Cd} / ^{128}\text{Cd} / ^{129}\text{Cd} / ^{130}\text{Cd} / ^{122}\text{Ag} / ^{123}\text{Ag} / ^{124}\text{Ag} / ^{125}\text{Ag} / ^{126}\text{Ag} / ^{127}\text{Ag} / ^{128}\text{Ag} / ^{119}\text{Pd} / ^{120}\text{Pd} / ^{121}\text{Pd} / ^{122}\text{Pd} / ^{123}\text{Pd} / ^{124}\text{Pd} / ^{125}\text{Pd} / ^{117}\text{Rh} / ^{118}\text{Rh} / ^{119}\text{Rh} / ^{120}\text{Rh} / ^{121}\text{Rh} / ^{122}\text{Rh} / ^{118}\text{Ru} / ^{119}\text{Ru} / ^{115}\text{Tc} / ^{116}\text{Tc} / ^{117}\text{Tc} / ^{113}\text{Mo} / ^{110}\text{Nb} / ^{111}\text{Nb} / ^{108}\text{Zr}$, $E=1$ GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=129 (*continued*)

- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(^{136}Xe , X) ^{121}Sb / ^{123}Sb ,
E=6.0-6.2 MeV / nucleon; measured $E\gamma$, $\gamma\gamma$ -coin, $\gamma(t)$, half-lives;
deduced isomers. $^{120}\text{Sn}({}^7\text{Li}$, $2n\alpha)$, E=58 MeV; $^{122}\text{Sn}({}^7\text{Li}$, $2n\alpha)$, E=54
MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, conversion electron spectra, half-lives
by decay curve analyses and centroid-shift methods, angular
correlations, DCO, conversion coefficients. $^{121,123}\text{Sb}$; deduced levels, J,
 π , multipolarity, mixing ratios, configurations. Comparisons with ^{120}Sn
and ^{122}Sn and with multistate mixing calculations.
 $^{113,115,117,119,121,123,125,127,129,131,133}\text{Sb}$; systematics. JOUR PRVCA 79
024306
- ^{129}Te 2008BE33 NUCLEAR REACTIONS ${}^9\text{Be}({}^{136}\text{Xe}$, X) ^{132}Cs / ^{133}Cs / ^{134}Cs / ^{135}Cs
/ ^{136}Cs / ^{129}Xe / ^{130}Xe / ^{131}Xe / ^{132}Xe / ^{133}Xe / ^{134}Xe / ^{135}Xe / ^{127}I
/ ^{128}I / ^{129}I / ^{130}I / ^{131}I / ^{132}I / ^{133}I / ^{134}I / ^{135}I / ^{136}I / ^{125}Te / ^{126}Te
/ ^{127}Te / ^{128}Te / ^{129}Te / ^{130}Te / ^{131}Te / ^{132}Te / ^{133}Te / ^{134}Te / ^{135}Te
/ ^{123}Sb / ^{124}Sb / ^{125}Sb / ^{126}Sb / ^{127}Sb / ^{128}Sb / ^{129}Sb / ^{130}Sb / ^{131}Sb
/ ^{132}Sb / ^{133}Sb / ^{134}Sb / ^{120}Sn / ^{121}Sn / ^{122}Sn / ^{123}Sn / ^{124}Sn / ^{125}Sn
/ ^{126}Sn / ^{127}Sn / ^{128}Sn / ^{129}Sn / ^{130}Sn / ^{131}Sn / ^{132}Sn / ^{118}In / ^{119}In
/ ^{120}In / ^{121}In / ^{122}In / ^{123}In / ^{124}In / ^{125}In / ^{126}In / ^{127}In / ^{128}In /
 ^{129}In / ^{130}In / ^{131}In / ^{115}Cd / ^{116}Cd / ^{117}Cd / ^{118}Cd / ^{119}Cd / ^{120}Cd
/ ^{121}Cd / ^{122}Cd / ^{123}Cd / ^{124}Cd / ^{125}Cd / ^{126}Cd / ^{127}Cd / ^{128}Cd /
 ^{129}Cd / ^{130}Cd / ^{122}Ag / ^{123}Ag / ^{124}Ag / ^{125}Ag / ^{126}Ag / ^{127}Ag /
 ^{128}Ag / ^{119}Pd / ^{120}Pd / ^{121}Pd / ^{122}Pd / ^{123}Pd / ^{124}Pd / ^{125}Pd /
 ^{117}Rh / ^{118}Rh / ^{119}Rh / ^{120}Rh / ^{121}Rh / ^{122}Rh / ^{118}Ru / ^{119}Ru /
 ^{115}Tc / ^{116}Tc / ^{117}Tc / ^{113}Mo / ^{110}Nb / ^{111}Nb / ^{108}Zr , E=1 GeV /
nucleon; measured σ . JOUR PRVCA 78 054605
- ^{129}I 2008BE33 NUCLEAR REACTIONS ${}^9\text{Be}({}^{136}\text{Xe}$, X) ^{132}Cs / ^{133}Cs / ^{134}Cs / ^{135}Cs
/ ^{136}Cs / ^{129}Xe / ^{130}Xe / ^{131}Xe / ^{132}Xe / ^{133}Xe / ^{134}Xe / ^{135}Xe / ^{127}I
/ ^{128}I / ^{129}I / ^{130}I / ^{131}I / ^{132}I / ^{133}I / ^{134}I / ^{135}I / ^{136}I / ^{125}Te / ^{126}Te
/ ^{127}Te / ^{128}Te / ^{129}Te / ^{130}Te / ^{131}Te / ^{132}Te / ^{133}Te / ^{134}Te / ^{135}Te
/ ^{123}Sb / ^{124}Sb / ^{125}Sb / ^{126}Sb / ^{127}Sb / ^{128}Sb / ^{129}Sb / ^{130}Sb / ^{131}Sb
/ ^{132}Sb / ^{133}Sb / ^{134}Sb / ^{120}Sn / ^{121}Sn / ^{122}Sn / ^{123}Sn / ^{124}Sn / ^{125}Sn
/ ^{126}Sn / ^{127}Sn / ^{128}Sn / ^{129}Sn / ^{130}Sn / ^{131}Sn / ^{132}Sn / ^{118}In / ^{119}In
/ ^{120}In / ^{121}In / ^{122}In / ^{123}In / ^{124}In / ^{125}In / ^{126}In / ^{127}In / ^{128}In /
 ^{129}In / ^{130}In / ^{131}In / ^{115}Cd / ^{116}Cd / ^{117}Cd / ^{118}Cd / ^{119}Cd / ^{120}Cd
/ ^{121}Cd / ^{122}Cd / ^{123}Cd / ^{124}Cd / ^{125}Cd / ^{126}Cd / ^{127}Cd / ^{128}Cd /
 ^{129}Cd / ^{130}Cd / ^{122}Ag / ^{123}Ag / ^{124}Ag / ^{125}Ag / ^{126}Ag / ^{127}Ag /
 ^{128}Ag / ^{119}Pd / ^{120}Pd / ^{121}Pd / ^{122}Pd / ^{123}Pd / ^{124}Pd / ^{125}Pd /
 ^{117}Rh / ^{118}Rh / ^{119}Rh / ^{120}Rh / ^{121}Rh / ^{122}Rh / ^{118}Ru / ^{119}Ru /
 ^{115}Tc / ^{116}Tc / ^{117}Tc / ^{113}Mo / ^{110}Nb / ^{111}Nb / ^{108}Zr , E=1 GeV /
nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=129 (continued)

- ¹²⁹Xe 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009RE03 ATOMIC MASSES ^{84,86}Kr, ^{129,132}Xe; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012506

A=130

- ¹³⁰Cd 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=130 (continued)

¹³⁰ In	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³⁰ Sn	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³⁰ Sb	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=130 (continued)

- ¹³⁰Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2008HI17 NUCLEAR REACTIONS ^{122,124,126,128,130}Te(n, n' γ), E=1.7-3.4 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler Shift Attenuation Method; deduced levels, J, π , multipolarities, mixing ratios, B(M1), B(E2), mixed-symmetry states. Comparison with Interacting Boson Model calculations. JOUR PRVCA 78 054320
- 2008TH07 RADIOACTIVITY ¹³⁰Te(2 β^-); measured concentrations of decay daughters in geological samples; deduced half-life. JOUR PRVCA 78 054606
- ¹³⁰I 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=130 (continued)

¹³⁰Xe 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

2008TH07 RADIOACTIVITY ¹³⁰Te(2 β^-); measured concentrations of decay daughters in geological samples; deduced half-life. JOUR PRVCA 78 054606

A=131

¹³¹In 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=131 (continued)

- ¹³¹Sn 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³¹Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2n α), E=58 MeV; ¹²²Sn(⁷Li, 2n α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. ^{113,115,117,119,121,123,125,127,129,131,133}Sb; systematics. JOUR PRVCA 79 024306

KEYNUMBERS AND KEYWORDS

A=132 (continued)

- ¹³²I 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³²Xe 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009RE03 ATOMIC MASSES ^{84,86}Kr, ^{129,132}Xe; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012506
- ¹³²Cs 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=133

- ¹³³Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- 2009WA02 NUCLEAR REACTIONS Yb, Lu, W, Os(¹³⁶Xe, X)¹²¹Sb / ¹²³Sb, E=6.0-6.2 MeV / nucleon; measured E γ , $\gamma\gamma$ -coin, $\gamma(t)$, half-lives; deduced isomers. ¹²⁰Sn(⁷Li, 2 α), E=58 MeV; ¹²²Sn(⁷Li, 2 α), E=54 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, conversion electron spectra, half-lives by decay curve analyses and centroid-shift methods, angular correlations, DCO, conversion coefficients. ^{121,123}Sb; deduced levels, J, π , multipolarity, mixing ratios, configurations. Comparisons with ¹²⁰Sn and ¹²²Sn and with multistate mixing calculations. 113,115,117,119,121,123,125,127,129,131,133Sb; systematics. JOUR PRVCA 79 024306
- ¹³³Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=133 (continued)

¹³³ I	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³³ Xe	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³³ Cs	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

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- ¹³⁴Sb 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³⁴Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³⁴I 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=134 (continued)

- ¹³⁴Xe 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³⁴Cs 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

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- ¹³⁵Te 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

KEYNUMBERS AND KEYWORDS

A=135 (continued)

¹³⁵ I	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³⁵ Xe	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>
¹³⁵ Cs	2008BE33	<p>NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ. JOUR PRVCA 78 054605</p>

A=136

- ¹³⁶I 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605
- ¹³⁶Cs 2008BE33 NUCLEAR REACTIONS ⁹Be(¹³⁶Xe, X)¹³²Cs / ¹³³Cs / ¹³⁴Cs / ¹³⁵Cs / ¹³⁶Cs / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³³Xe / ¹³⁴Xe / ¹³⁵Xe / ¹²⁷I / ¹²⁸I / ¹²⁹I / ¹³⁰I / ¹³¹I / ¹³²I / ¹³³I / ¹³⁴I / ¹³⁵I / ¹³⁶I / ¹²⁵Te / ¹²⁶Te / ¹²⁷Te / ¹²⁸Te / ¹²⁹Te / ¹³⁰Te / ¹³¹Te / ¹³²Te / ¹³³Te / ¹³⁴Te / ¹³⁵Te / ¹²³Sb / ¹²⁴Sb / ¹²⁵Sb / ¹²⁶Sb / ¹²⁷Sb / ¹²⁸Sb / ¹²⁹Sb / ¹³⁰Sb / ¹³¹Sb / ¹³²Sb / ¹³³Sb / ¹³⁴Sb / ¹²⁰Sn / ¹²¹Sn / ¹²²Sn / ¹²³Sn / ¹²⁴Sn / ¹²⁵Sn / ¹²⁶Sn / ¹²⁷Sn / ¹²⁸Sn / ¹²⁹Sn / ¹³⁰Sn / ¹³¹Sn / ¹³²Sn / ¹¹⁸In / ¹¹⁹In / ¹²⁰In / ¹²¹In / ¹²²In / ¹²³In / ¹²⁴In / ¹²⁵In / ¹²⁶In / ¹²⁷In / ¹²⁸In / ¹²⁹In / ¹³⁰In / ¹³¹In / ¹¹⁵Cd / ¹¹⁶Cd / ¹¹⁷Cd / ¹¹⁸Cd / ¹¹⁹Cd / ¹²⁰Cd / ¹²¹Cd / ¹²²Cd / ¹²³Cd / ¹²⁴Cd / ¹²⁵Cd / ¹²⁶Cd / ¹²⁷Cd / ¹²⁸Cd / ¹²⁹Cd / ¹³⁰Cd / ¹²²Ag / ¹²³Ag / ¹²⁴Ag / ¹²⁵Ag / ¹²⁶Ag / ¹²⁷Ag / ¹²⁸Ag / ¹¹⁹Pd / ¹²⁰Pd / ¹²¹Pd / ¹²²Pd / ¹²³Pd / ¹²⁴Pd / ¹²⁵Pd / ¹¹⁷Rh / ¹¹⁸Rh / ¹¹⁹Rh / ¹²⁰Rh / ¹²¹Rh / ¹²²Rh / ¹¹⁸Ru / ¹¹⁹Ru / ¹¹⁵Tc / ¹¹⁶Tc / ¹¹⁷Tc / ¹¹³Mo / ¹¹⁰Nb / ¹¹¹Nb / ¹⁰⁸Zr, E=1 GeV / nucleon; measured σ . JOUR PRVCA 78 054605

A=137

- ¹³⁷Cs 2008AL40 RADIOACTIVITY ¹³⁷Cs(β^-); measured internal bremsstrahlung spectra. JOUR BRSPPE 72 1563
- 2008AL41 RADIOACTIVITY ¹³⁷Cs(β^-); measured E γ , I γ , X-ray Spectra. Deduced internal Compton effect spectrum. JOUR BRSPPE 72 1573
- ¹³⁷Ba 2008AL40 RADIOACTIVITY ¹³⁷Cs(β^-); measured internal bremsstrahlung spectra. JOUR BRSPPE 72 1563
- 2008AL41 RADIOACTIVITY ¹³⁷Cs(β^-); measured E γ , I γ , X-ray Spectra. Deduced internal Compton effect spectrum. JOUR BRSPPE 72 1573

A=138

No references found

A=139

¹³⁹Sm 2008PA36 NUCLEAR REACTIONS ⁹⁹Ru(⁴⁸Ti, 2n2pα), E=240 MeV; ¹¹⁴Sn(³²S, n2pα), E=160MeV; measured Eγ, Iγ, γγ-, (proton)γ-coin, DSA using Euroball III and IV arrays. ¹³⁹Sm deduced J, π, B(M1), B(E2), T_{1/2}. Comparison with self-consistent TAC (Tilted Axis Cranking) and semi-classical SPAC (Shears mechanism with Principal Axis Cranking) models. JOUR ZAANE 37 279

A=140

No references found

A=141

No references found

A=142

¹⁴²Tb 2009MA06 NUCLEAR REACTIONS ⁹²Mo(⁵⁴Fe, n3p), E=245, 252, 256 MeV; measured Eγ, Iγ, γγ-coin, γ(θ), half-lives. ¹⁴²Tb; deduced J, π, multipolarity, isomers, bands, configurations. Prompt and delayed γ-ray spectroscopy using recoil isomer-tagging technique. Comparison with predictions of cranked shell-model calculations. JOUR PRVCA 79 024318

A=143

¹⁴³La 2009LU04 RADIOACTIVITY ²⁵²Cf(SF); measured Eγ, Iγ, γγ-coin and fission yield ratios of ^{103,104,105}Nb, ^{143,144}La using Gammasphere. ^{143,144}La deduced levels, J, π, band configurations, branching ratios, B(E1) / B(E2) ratios. Cranked-shell model calculations. JOUR NUPAB 818 121

A=144

¹⁴⁴La 2009LU04 RADIOACTIVITY ²⁵²Cf(SF); measured Eγ, Iγ, γγ-coin and fission yield ratios of ^{103,104,105}Nb, ^{143,144}La using Gammasphere. ^{143,144}La deduced levels, J, π, band configurations, branching ratios, B(E1) / B(E2) ratios. Cranked-shell model calculations. JOUR NUPAB 818 121

¹⁴⁴Sm 2009M003 NUCLEAR REACTIONS ¹⁴⁴Sm(⁶Li, ⁶Li), E=14-35 MeV; measured excitation functions. Comparison with coupled-channel calculations. JOUR PRVCA 79 014601

KEYNUMBERS AND KEYWORDS

A=145

No references found

A=146

No references found

A=147

¹⁴⁷Pm 2008VI09 RADIOACTIVITY ¹⁰⁹Ag, ¹²³Te, ¹⁴⁷Pm(IT); measured E γ , I γ , X-ray spectra, e γ -, eX-ray-coin. Deduced hypersatellite energy shift. JOUR BRSPE 72 1559

A=148

No references found

A=149

¹⁴⁹Eu 2009VI01 NUCLEAR REACTIONS ^{150,150m,152m}Eu, ^{190m}Ir(γ , n), E=12, 12.5, 16 MeV; measured E γ , I γ , half-lives, isomeric yield ratios; deduced levels.Comparison with TALYS and MCEM calculations. JOUR PRVCA 79 014615

A=150

No references found

A=151

¹⁵¹Eu 2009VI01 NUCLEAR REACTIONS ^{150,150m,152m}Eu, ^{190m}Ir(γ , n), E=12, 12.5, 16 MeV; measured E γ , I γ , half-lives, isomeric yield ratios; deduced levels.Comparison with TALYS and MCEM calculations. JOUR PRVCA 79 014615

A=152

No references found

A=153

No references found

A=154

No references found

A=155

No references found

A=156

No references found

A=157

No references found

A=158

No references found

A=159

No references found

A=160

No references found

A=161

No references found

A=162

No references found

A=163

No references found

KEYNUMBERS AND KEYWORDS

A=164

^{164}Ho 2009FA03 NUCLEAR REACTIONS ^{165}Ho , $^{180}\text{W}(n, 2n)$, $E=14$ MeV; measured $E\gamma$, $I\gamma$, cross sections using the activation technique. JOUR RMEAE 44 68

A=165

^{165}Tm 2009TA01 NUCLEAR REACTIONS $\text{Er}(p, xn)^{165}\text{Tm}$, $E < 70$ MeV; measured $E\gamma$, $I\gamma$, excitation function using the stacked foil activation technique. Compared results to model calculations. JOUR ARISE 67 243

A=166

^{166}Ho 2009RA01 NUCLEAR REACTIONS $^{165}\text{Ho}(n, \gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, cross section; deduced resonance integral. Compared results to existing data and evaluated databases. JOUR RAACA 97 63

A=167

No references found

A=168

^{168}Hf 2009C003 NUCLEAR REACTIONS $^{124}\text{Sn}(^{48}\text{Ti}, 4n)$, $E=190$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, half-lives of g.s. band members using recoil-distance Doppler-shift method. ^{168}Hf ; deduced levels, J , π , $B(E2)$. Comparison with predictions of geometrical confined β soft rotor model involving centrifugal stretching. JOUR PRVCA 79 024307

^{168}Os 20090G03 NUCLEAR REACTIONS $^{136}\text{Xe}(^{136}\text{Xe}, xn)^{269}\text{Hs} / ^{270}\text{Hs} / ^{271}\text{Hs}$, $E=750$ MeV; measured $E\alpha$, $I\alpha$, upper limit of production σ for $Z=108$ element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. $\text{Ti}(^{136}\text{Xe}, xn)^{168}\text{Os} / ^{169}\text{Os} / ^{170}\text{Os} / ^{171}\text{Os} / ^{172}\text{Os} /$, $E=750$ MeV; measured $E\alpha$, $I\alpha$. JOUR PRVCA 79 024608

A=169

^{169}Os 20090G03 NUCLEAR REACTIONS $^{136}\text{Xe}(^{136}\text{Xe}, xn)^{269}\text{Hs} / ^{270}\text{Hs} / ^{271}\text{Hs}$, $E=750$ MeV; measured $E\alpha$, $I\alpha$, upper limit of production σ for $Z=108$ element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. $\text{Ti}(^{136}\text{Xe}, xn)^{168}\text{Os} / ^{169}\text{Os} / ^{170}\text{Os} / ^{171}\text{Os} / ^{172}\text{Os} /$, $E=750$ MeV; measured $E\alpha$, $I\alpha$. JOUR PRVCA 79 024608

A=170

¹⁷⁰Os 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰Hs / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

A=171

¹⁷¹Os 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰Hs / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

A=172

¹⁷²Os 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰Hs / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

A=173

No references found

A=174

No references found

A=175

No references found

A=176

No references found

KEYNUMBERS AND KEYWORDS

A=177

¹⁷⁷Re 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

A=178

¹⁷⁸Re 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

A=179

¹⁷⁹W 2009FA03 NUCLEAR REACTIONS ¹⁶⁵Ho, ¹⁸⁰W(n, 2n), E=14 MeV; measured E γ , I γ , cross sections using the activation technique. JOUR RMEAE 44 68

¹⁷⁹Re 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

A=180

¹⁸⁰Hf 2009BU03 RADIOACTIVITY ¹⁸⁰Hf(IT); ¹⁸¹Hf(β^-); measured time differential perturbed angular correlation spectra. JOUR ZNASE 64a 103

2009BU03 NUCLEAR MOMENTS ^{180,181}Hf; deduced hyperfine parameters. JOUR ZNASE 64a 103

¹⁸⁰W 2009FA01 RADIOACTIVITY ¹⁸⁰Re(EC), (β^+) [from ¹⁸¹Ta(³He, 4n), E=33 MeV]; measured delayed γ spectrum; deduced none oscillation of decay rate. JOUR PYLBB 672 227

¹⁸⁰Re 2009FA01 RADIOACTIVITY ¹⁸⁰Re(EC), (β^+) [from ¹⁸¹Ta(³He, 4n), E=33 MeV]; measured delayed γ spectrum; deduced none oscillation of decay rate. JOUR PYLBB 672 227

¹⁸⁰Os 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

KEYNUMBERS AND KEYWORDS

A=180 (continued)

¹⁸⁰Ir 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

A=181

¹⁸¹Hf 2009BU03 RADIOACTIVITY ¹⁸⁰Hf(IT); ¹⁸¹Hf(β^-); measured time differential perturbed angular correlation spectra. JOUR ZNASE 64a 103

2009BU03 NUCLEAR MOMENTS ^{180,181}Hf; deduced hyperfine parameters. JOUR ZNASE 64a 103

¹⁸¹Ta 2009BU03 RADIOACTIVITY ¹⁸⁰Hf(IT); ¹⁸¹Hf(β^-); measured time differential perturbed angular correlation spectra. JOUR ZNASE 64a 103

¹⁸¹Os 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

¹⁸¹Ir 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

A=182

¹⁸²Os 2009M005 NUCLEAR REACTIONS ¹⁸⁶W(⁷Li, 4np), (⁷Li, 3nd), (⁷Li, 2nt), E=51, 53, 56, 59 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DCO ratios, $\gamma(t)$, half-life by decay curve method. ¹⁸⁸Os; deduced levels, J, π , isomers, configurations. ^{182,184,186,188}Os; systematics. JOUR PRVCA 79 024310

2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

¹⁸²Ir 2009SI02 NUCLEAR REACTIONS ¹⁶⁹Tm(¹⁶O, X)¹⁷⁷Re / ¹⁷⁸Re / ¹⁷⁹Re / ¹⁸⁰Os / ¹⁸¹Os / ¹⁸²Os / ¹⁸⁰Ir / ¹⁸¹Ir / ¹⁸²Ir, E=5.6 MeV / nucleon; measured E γ , I γ , (charged-particle) γ -coin, yields, spin distributions; deduced γ cascade feeding intensities. Comparison with PACE4 calculations. JOUR PYLBB 671 20

KEYNUMBERS AND KEYWORDS

A=183

¹⁸³Os 2009LU03 NUCLEAR REACTIONS ⁸⁶Sr, ¹⁸⁴Os(n, 2n), ¹⁹⁰Os(n, p), E=13.5-14.8 MeV; measured E γ , I γ , cross sections using the activation technique. Compared results to model calculations, existing data, and evaluated databases. JOUR JRNCD 279 443

A=184

¹⁸⁴Os 2009M005 NUCLEAR REACTIONS ¹⁸⁶W(⁷Li, 4np), (⁷Li, 3nd), (⁷Li, 2nt), E=51, 53, 56, 59 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DCO ratios, $\gamma(t)$, half-life by decay curve method. ¹⁸⁸Os; deduced levels, J, π , isomers, configurations. ^{182,184,186,188}Os; systematics. JOUR PRVCA 79 024310

A=185

¹⁸⁵Re 2009GA04 NUCLEAR REACTIONS ¹⁸⁵Re(³He, ³He), (³He, ³He'), E=30 MeV; measured $\sigma(\theta)$. Comparison with results of ECISO3 calculations. JOUR PRVCA 79 017601

A=186

¹⁸⁶Os 2009M005 NUCLEAR REACTIONS ¹⁸⁶W(⁷Li, 4np), (⁷Li, 3nd), (⁷Li, 2nt), E=51, 53, 56, 59 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DCO ratios, $\gamma(t)$, half-life by decay curve method. ¹⁸⁸Os; deduced levels, J, π , isomers, configurations. ^{182,184,186,188}Os; systematics. JOUR PRVCA 79 024310

A=187

No references found

A=188

¹⁸⁸Ta 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

¹⁸⁸Os 2009M005 NUCLEAR REACTIONS ¹⁸⁶W(⁷Li, 4np), (⁷Li, 3nd), (⁷Li, 2nt), E=51, 53, 56, 59 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DCO ratios, $\gamma(t)$, half-life by decay curve method. ¹⁸⁸Os; deduced levels, J, π , isomers, configurations. ^{182,184,186,188}Os; systematics. JOUR PRVCA 79 024310

A=189

- ¹⁸⁹Ta 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ¹⁸⁹Ir 2009VI01 NUCLEAR REACTIONS ^{150,150m,152m}Eu, ^{190m}Ir(γ , n), E=12, 12.5, 16 MeV; measured E γ , I γ , half-lives, isomeric yield ratios; deduced levels. Comparison with TALYS and MCEM calculations. JOUR PRVCA 79 014615

A=190

- ¹⁹⁰W 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ¹⁹⁰Re 2009LU03 NUCLEAR REACTIONS ⁸⁶Sr, ¹⁸⁴Os(n, 2n), ¹⁹⁰Os(n, p), E=13.5-14.8 MeV; measured E γ , I γ , cross sections using the activation technique. Compared results to model calculations, existing data, and evaluated databases. JOUR JRNC D 279 443
- ¹⁹⁰Ir 2008VI11 NUCLEAR REACTIONS ¹⁹¹Ir, ¹⁹⁷Au(γ , n), E=12.12.5 MeV; ¹⁹⁷Au(d, p), E=4.5 MeV; measured E γ , I γ , Isomeric ratios. JOUR BRSP E 72 1577

A=191

- ¹⁹¹W 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ¹⁹¹Re 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

A=192

¹⁹²Re 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

A=193

¹⁹³Re 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

¹⁹³Os 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

A=194

¹⁹⁴Re 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302

2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

¹⁹⁴Pb 2009KU03 NUCLEAR REACTIONS ¹⁶⁸Er(³⁰Si, 4n)¹⁹⁴Pb, E=142 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions. ¹⁹⁴Pb; deduced levels, J, π , multipolarity, rotational bands. JOUR PRVCA 79 014315

A=195

¹⁹⁵Re 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302

KEYNUMBERS AND KEYWORDS

A=195 (continued)

^{195}Os	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{195}Ir	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey

A=196

^{196}Re	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{196}Os	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
^{196}Au	2008NA26	NUCLEAR REACTIONS $^{197}\text{Au}(\gamma, n)$, E=8.0-15.5 MeV; measured activation yields. Comparison with Hauser Feshbach calculations. JOUR PRVCA 78 055802
	2008VI10	NUCLEAR REACTIONS $^{118}\text{Sn}(\gamma, p)$, $\text{Sb}(\gamma, \alpha)^{117}\text{In}$, $^{197}\text{Au}(\gamma, n)$, E=15, 22 MeV; measured $E\gamma$, $I\gamma$, isomeric ratios. JOUR BRSPPE 72 1569
	2008VI11	NUCLEAR REACTIONS ^{191}Ir , $^{197}\text{Au}(\gamma, n)$, E=12.12.5 MeV; $^{197}\text{Au}(\text{d}, p)$, E=4.5 MeV; measured $E\gamma$, $I\gamma$, Isomeric ratios. JOUR BRSPPE 72 1577
^{196}Tl	2009PE01	NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, E < 55 MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104

A=197

- ¹⁹⁷Os 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302
- 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ¹⁹⁷Pt 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ¹⁹⁷Au 2009JI02 NUCLEAR REACTIONS ¹⁹⁷Au(¹⁸Ne, ¹⁸Ne'), E not given; measured Ep, Ip. ¹⁸Ne; deduced level energies. Two proton decay. JOUR CPLEE 26 032301
- ¹⁹⁷Tl 2009PE01 NUCLEAR REACTIONS ²⁰⁹Bi(⁶Li, 3n), (⁶Li, 4n), (⁶Li, 5n), (⁶Li, 6n), ^{198,196,195}Pt(⁶Li, 5n), ^{198,196,195,194}Pt(⁶Li, 4n), ^{196,195,194}Pt(⁶Li, 3n), ¹⁹⁸Pt(⁶Li, 2n), E < 55 MeV; measured E α , I α , fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
- ¹⁹⁷Pb 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=198

- ¹⁹⁸Os 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302
- 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=198 (continued)

^{198}Ir	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{198}Pt	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{198}Au	2008VI11	NUCLEAR REACTIONS ^{191}Ir , $^{197}\text{Au}(\gamma, n)$, $E=12.125$ MeV; $^{197}\text{Au}(d, p)$, $E=4.5$ MeV; measured $E\gamma$, $I\gamma$, Isomeric ratios. JOUR BRSPPE 72 1577
^{198}Tl	2009PE01	NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
^{198}Pb	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319
^{198}Bi	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=199

^{199}Os	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, $E=1$ GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=199 (continued)

^{199}Ir	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{199}Pt	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{199}Tl	2009PE01	NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, E < 55 MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
^{199}Pb	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319
^{199}Bi	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=200

^{200}Ir	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=200 (continued)

^{200}Pt	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{200}Tl	2009PE01	NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
^{200}Pb	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319
^{200}Bi	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=201

^{201}Ir	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, $E=1$ GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{201}Pt	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=201 (continued)

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|-------------------|----------|--|
| ^{201}Au | 2008STZY | NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey |
| ^{201}Tl | 2009LE05 | NUCLEAR REACTIONS $^{198}\text{Pt}(^6\text{Li}, \text{X})^{201}\text{Tl} / ^{202}\text{Tl}$, E=20-45 MeV; measured $E\gamma$, $I\gamma$, X-ray spectra, (X-ray) γ -coin, evaporation residue cross sections. JOUR NIMAE 598 445 |
| ^{201}Pb | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{201}Bi | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |

A=202

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|-------------------|----------|--|
| ^{202}Ir | 2008ST20 | NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302 |
| | 2008STZY | NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey |
| ^{202}Pt | 2008ST20 | NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR PRVCA 78 061302 |
| | 2008STZY | NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey |

A=202 (continued)

- ²⁰²Au 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ²⁰²Tl 2009LE05 NUCLEAR REACTIONS ¹⁹⁸Pt(⁶Li, X)²⁰¹Tl / ²⁰²Tl, E=20-45 MeV; measured E γ , I γ , X-ray spectra, (X-ray) γ -coin, evaporation residue cross sections. JOUR NIMAE 598 445
- 2009PE01 NUCLEAR REACTIONS ²⁰⁹Bi(⁶Li, 3n), (⁶Li, 4n), (⁶Li, 5n), (⁶Li, 6n), ^{198,196,195}Pt(⁶Li, 5n), ^{198,196,195,194}Pt(⁶Li, 4n), ^{196,195,194}Pt(⁶Li, 3n), ¹⁹⁸Pt(⁶Li, 2n), E < 55 MeV; measured E α , I α , fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
- ²⁰²Bi 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319
- ²⁰²Rn 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=203

- ²⁰³Ir 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ²⁰³Pt 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302
- 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=203 (continued)

^{203}Au	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{203}Hg	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey

A=204

^{204}Pt	2008ST20	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re} / ^{196}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{205}\text{Au}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, half-lives, B(E2), B(E3). ^{204}Pt ; deduced levels, J, π . Comparisons with ^{206}Hg and shell model calculations. JOUR. PRVCA 78 061302
	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{204}Au	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{204}Hg	2008STZY	NUCLEAR REACTIONS $^9\text{Be}(^{208}\text{Pb}, \text{X})^{195}\text{Ir} / ^{198}\text{Ir} / ^{199}\text{Ir} / ^{200}\text{Ir} / ^{201}\text{Ir} / ^{202}\text{Ir} / ^{203}\text{Ir} / ^{197}\text{Pt} / ^{198}\text{Pt} / ^{199}\text{Pt} / ^{200}\text{Pt} / ^{201}\text{Pt} / ^{202}\text{Pt} / ^{203}\text{Pt} / ^{204}\text{Pt} / ^{201}\text{Au} / ^{202}\text{Au} / ^{203}\text{Au} / ^{204}\text{Au} / ^{205}\text{Au} / ^{193}\text{Os} / ^{195}\text{Os} / ^{197}\text{Os} / ^{198}\text{Os} / ^{199}\text{Os} / ^{190}\text{W} / ^{191}\text{W} / ^{203}\text{Hg} / ^{204}\text{Hg} / ^{205}\text{Hg} / ^{206}\text{Hg} / ^{191}\text{Re} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{196}\text{Re} / ^{188}\text{Ta} / ^{189}\text{Ta}$; measured $E\gamma$, $I\gamma$; Deduced levels, J, π . THESIS S J Steer, University of Surrey
^{204}Rn	2008HA39	NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=205

- ²⁰⁵Au 2008ST20 NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re / ¹⁹⁶Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰⁵Au, E=1 GeV / nucleon; measured E γ , I γ , half-lives, B(E2), B(E3). ²⁰⁴Pt; deduced levels, J, π . Comparisons with ²⁰⁶Hg and shell model calculations. JOUR PRVCA 78 061302
- 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- 2009P001 NUCLEAR REACTIONS Be(²⁰⁸Pb, ²⁰⁵Au), E=1 GeV / nucleon; measured delayed charged-particle, γ spectra, (fragment) γ -, (fragment)(charged-particle)-coin. ²⁰⁵Au deduced levels, J, π , T_{1/2}, configurations, B(M4) upper limit. Comparison with shell-model. JOUR PYLBB 672 116
- ²⁰⁵Hg 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey
- ²⁰⁵Pb 2009SY01 NUCLEAR REACTIONS ^{206,208}Pb(³He, ³He' γ), (³He, $\alpha\gamma$), E=38 MeV; measured E γ , I γ , (particle) γ -coin; deduced spin distributions, level densities, entropies, temperature, γ -ray strength functions. Comparison of E1 and M1 strengths with Standard Lorentzian and enhanced generalized Lorentzian models. JOUR PRVCA 79 024316
- ²⁰⁵Rn 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319
- ²⁰⁵Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=206

- ²⁰⁶Hg 2008STZY NUCLEAR REACTIONS ⁹Be(²⁰⁸Pb, X)¹⁹⁵Ir / ¹⁹⁸Ir / ¹⁹⁹Ir / ²⁰⁰Ir / ²⁰¹Ir / ²⁰²Ir / ²⁰³Ir / ¹⁹⁷Pt / ¹⁹⁸Pt / ¹⁹⁹Pt / ²⁰⁰Pt / ²⁰¹Pt / ²⁰²Pt / ²⁰³Pt / ²⁰⁴Pt / ²⁰¹Au / ²⁰²Au / ²⁰³Au / ²⁰⁴Au / ²⁰⁵Au / ¹⁹³Os / ¹⁹⁵Os / ¹⁹⁷Os / ¹⁹⁸Os / ¹⁹⁹Os / ¹⁹⁰W / ¹⁹¹W / ²⁰³Hg / ²⁰⁴Hg / ²⁰⁵Hg / ²⁰⁶Hg / ¹⁹¹Re / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁶Re / ¹⁸⁸Ta / ¹⁸⁹Ta; measured E γ , I γ ; Deduced levels, J, π . THESIS S J Steer, University of Surrey

KEYNUMBERS AND KEYWORDS

A=206 (continued)

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| ^{206}Pb | 2009SY01 | NUCLEAR REACTIONS $^{206,208}\text{Pb}(^3\text{He}, ^3\text{He}'\gamma)$, ($^3\text{He}, \alpha\gamma$), E=38 MeV; measured $E\gamma$, $I\gamma$, (particle) γ -coin; deduced spin distributions, level densities, entropies, temperature, γ -ray strength functions. Comparison of E1 and M1 strengths with Standard Lorentzian and enhanced generalized Lorentzian models. JOUR PRVCA 79 024316 |
| ^{206}Rn | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{206}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |

A=207

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|-------------------|----------|---|
| ^{207}Pb | 2009SY01 | NUCLEAR REACTIONS $^{206,208}\text{Pb}(^3\text{He}, ^3\text{He}'\gamma)$, ($^3\text{He}, \alpha\gamma$), E=38 MeV; measured $E\gamma$, $I\gamma$, (particle) γ -coin; deduced spin distributions, level densities, entropies, temperature, γ -ray strength functions. Comparison of E1 and M1 strengths with Standard Lorentzian and enhanced generalized Lorentzian models. JOUR PRVCA 79 024316 |
| ^{207}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |

A=208

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|-------------------|----------|---|
| ^{208}Pb | 2008SH23 | NUCLEAR REACTIONS $^{208}\text{Pb}(\text{polarized } \gamma, \gamma)$, E=7.0-7.4 MeV; measured $E\gamma$, $I\gamma$, angular distributions, azimuthal asymmetry, B(M1), B(E1), widths. ^{208}Pb ; deduced levels, J, π . JOUR PRVCA 78 061303 |
| | 2009EL03 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{20}\text{C}, ^{20}\text{C}')$, E=37.6 MeV / nucleon; $^1\text{H}(^{20}\text{C}, ^{20}\text{C}')$, E=41.4 MeV / nucleon; measured $E\gamma$, $I\gamma$. ^{20}C ; deduced levels, J, π , charge and neutron transition probabilities, B(E2). Comparison with shell model calculations. JOUR PRVCA 79 011302 |
| | 2009GIZZ | NUCLEAR REACTIONS $^{208}\text{Pb}(^{26}\text{Ne}, ^{26}\text{Ne}')$, E=58 MeV / nucleon; measured fragment spectra. ^{26}Ne ; deduced level energies, B(E1). REPT RIKEN-NC-NP-29,Gibelin |

A=208 (continued)

- 2009SY01 NUCLEAR REACTIONS $^{206,208}\text{Pb}(^3\text{He}, ^3\text{He}'\gamma)$, $(^3\text{He}, \alpha\gamma)$, $E=38$ MeV; measured $E\gamma$, $I\gamma$, (particle) γ -coin; deduced spin distributions, level densities, entropies, temperature, γ -ray strength functions. Comparison of E1 and M1 strengths with Standard Lorentzian and enhanced generalized Lorentzian models. JOUR PRVCA 79 024316
- ^{208}Rn 2008HA39 NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319
- ^{208}Fr 2008HA39 NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=209

- ^{209}Rn 2009PE01 NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104
- ^{209}Fr 2008HA39 NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=210

- ^{210}Po 2009LU02 NUCLEAR REACTIONS $^{206}\text{Pb}(^6\text{He}, 2n)$, $E=12-28$ MeV; $^{208}\text{Pb}(^4\text{He}, 2n)$, $E=12-28$ MeV; measured σ . Comparison with statistical and sequential fusion models. JOUR PYLBB 670 321
- ^{210}Rn 2008HA39 NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , B(M1), B(E2), magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319

KEYNUMBERS AND KEYWORDS

A=210 (continued)

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|-------------------|----------|---|
| 2009PE01 | | NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104 |
| ^{210}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, X)$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , $B(M1)$, $B(E2)$, magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |

A=211

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| ^{211}Rn | 2009PE01 | NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104 |
| ^{211}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, X)$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , $B(M1)$, $B(E2)$, magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{211}Th | 2008LA14 | ATOMIC MASSES $^{211,213,217,218}\text{Th}$; measured mass of Th sample to determine existence of long-lived isomers, upper limits of existence of isomers. JOUR PRVCA 78 064313 |

A=212

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|-------------------|----------|---|
| ^{212}Rn | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, X)$, $E=152$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J , π , $B(M1)$, $B(E2)$, magnetic rotational bands. $^{202,204,206,208,210,212,214,216,218,220,222}\text{Rn}$; $^{205,207,209,211,213,215,217,219,221,223}\text{Fr}$, $^{206,208,210,212,214,216,218,220,222,224}\text{Fr}$; energy systematics. ^{205}Rn , $^{198,199,200,201,202}\text{Bi}$, $^{197,198,199,200,201}\text{Pb}$; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| | 2009PE01 | NUCLEAR REACTIONS $^{209}\text{Bi}(^6\text{Li}, 3n)$, $(^6\text{Li}, 4n)$, $(^6\text{Li}, 5n)$, $(^6\text{Li}, 6n)$, $^{198,196,195}\text{Pt}(^6\text{Li}, 5n)$, $^{198,196,195,194}\text{Pt}(^6\text{Li}, 4n)$, $^{196,195,194}\text{Pt}(^6\text{Li}, 3n)$, $^{198}\text{Pt}(^6\text{Li}, 2n)$, $E < 55$ MeV; measured $E\alpha$, $I\alpha$, fusion evaporation excitation functions. Compared results to model calculations. JOUR JPGPE 36 025104 |

A=212 (continued)

²¹²Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=213

²¹³Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

²¹³Th 2008LA14 ATOMIC MASSES ^{211,213,217,218}Th; measured mass of Th sample to determine existence of long-lived isomers, upper limits of existence of isomers. JOUR PRVCA 78 064313

A=214

²¹⁴Rn 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

²¹⁴Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=215

²¹⁵Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. ^{202,204,206,208,210,212,214,216,218,220,222}Rn; ^{205,207,209,211,213,215,217,219,221,223}Fr, ^{206,208,210,212,214,216,218,220,222,224}Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

KEYNUMBERS AND KEYWORDS

A=216

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| ^{216}Rn | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ^{205}Rn , 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{216}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ^{205}Rn , 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |

A=217

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| ^{217}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ^{205}Rn , 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{217}Th | 2008LA14 | ATOMIC MASSES $^{211,213,217,218}\text{Th}$; measured mass of Th sample to determine existence of long-lived isomers, upper limits of existence of isomers. JOUR PRVCA 78 064313 |

A=218

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|-------------------|----------|--|
| ^{218}Rn | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ^{205}Rn , 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{218}Fr | 2008HA39 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{30}\text{Si}, \text{X})$, E=152 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{204}At , $^{205,206,207}\text{Fr}$; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ^{205}Rn , 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319 |
| ^{218}Th | 2008LA14 | ATOMIC MASSES $^{211,213,217,218}\text{Th}$; measured mass of Th sample to determine existence of long-lived isomers, upper limits of existence of isomers. JOUR PRVCA 78 064313 |

A=219

²¹⁹Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=220

²²⁰Rn 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

²²⁰Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=221

²²¹Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=222

²²²Rn 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

²²²Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, 198,199,200,201,202Bi, 197,198,199,200,201Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

KEYNUMBERS AND KEYWORDS

A=223

²²³Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=224

²²⁴Fr 2008HA39 NUCLEAR REACTIONS ¹⁸¹Ta(³⁰Si, X), E=152 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ²⁰⁴At, ^{205,206,207}Fr; deduced levels, J, π , B(M1), B(E2), magnetic rotational bands. 202,204,206,208,210,212,214,216,218,220,222Rn; 205,207,209,211,213,215,217,219,221,223Fr, 206,208,210,212,214,216,218,220,222,224Fr; energy systematics. ²⁰⁵Rn, ^{198,199,200,201,202}Bi, ^{197,198,199,200,201}Pb; systematics of spin and rotational energy. JOUR PRVCA 78 054319

A=225

No references found

A=226

No references found

A=227

No references found

A=228

No references found

A=229

No references found

A=230

²³⁰Th 2009LE03 NUCLEAR REACTIONS ²³²Th(p, t), E=25 MeV; measured triton spectra, angular distributions. ²³⁰Th; deduced levels, J, π , σ . Coupled-channel and Distorted-wave Born approximation (DWBA) analyses. Comparison with interacting boson model and quasiparticle-phonon model calculations. JOUR PRVCA 79 014318

A=231

No references found

A=232

No references found

A=233

²³³Th 2008DE31 RADIOACTIVITY ²³³Th(β^-); measured E γ , I γ , X-rays; deduced ICC, logft. JOUR ARISE 66 1999
²³³Pa 2008DE31 RADIOACTIVITY ²³³Th(β^-); measured E γ , I γ , X-rays; deduced ICC, logft. JOUR ARISE 66 1999

A=234

²³⁴Pa 2008NA27 NUCLEAR REACTIONS ²³²Th(⁶Li, α), (⁶Li, d), E=38.0 MeV; measured fission spectra, charged particle spectra. ²³³Pa(n, F), E=11.5-16.5 MeV; deduced fission σ . Comparison with predictions of EMPIRE code. JOUR PRVCA 78 061602

A=235

No references found

A=236

²³⁶U 2008NA27 NUCLEAR REACTIONS ²³²Th(⁶Li, α), (⁶Li, d), E=38.0 MeV; measured fission spectra, charged particle spectra. ²³³Pa(n, F), E=11.5-16.5 MeV; deduced fission σ . Comparison with predictions of EMPIRE code. JOUR PRVCA 78 061602
 2009C002 NUCLEAR REACTIONS ²³⁹Pu(n, α), E=0.001 eV-2 MeV; measured neutron spectra, n- γ coin, time-of-flight method. ²⁴⁰Pu; deduced levels, resonance energies. JOUR PRVCA 79 017603

KEYNUMBERS AND KEYWORDS

A=237

No references found

A=238

No references found

A=239

No references found

A=240

²⁴⁰Pu 2009C002 NUCLEAR REACTIONS ²³⁹Pu(n, α), E=0.001 eV-2 MeV; measured neutron spectra, n-γ coin, time-of-flight method. ²⁴⁰Pu; deduced levels, resonance energies. JOUR PRVCA 79 017603

A=241

No references found

A=242

No references found

A=243

²⁴³Cf 2009DR02 RADIOACTIVITY ²⁶³Hs, ²⁵⁹Sg, ²⁵⁵Rf, ²⁵¹No, ²⁴⁷Fm(α); measured Eα, half-lives. JOUR PRVCA 79 011602

A=244

No references found

A=245

No references found

A=246

- ^{246}Es 2008AN16 RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr(EC)}$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}$, xn), E=214-244 MeV and subsequent decays]; measured $E\alpha$, $I\alpha$, conversion electrons, $E\gamma$, $I\gamma$, $\gamma\alpha$ -, (ce)a-coin, $T_{1/2}$. ^{250}Md ; deduced levels, J, π , $T_{1/2}$. JOUR ZAANE 38 219
- 2009NE02 RADIOACTIVITY ^{266}Mt , ^{262}Bh , ^{258}Db , ^{254}Lr , No, ^{250}Md , $\text{Fm}(\alpha)$, ^{254}Lr , $^{250}\text{Md(EC)}$; measured $E\alpha$, half-lives, decay modes. JOUR PRVCA 79 027605

A=247

- ^{247}Es 2008AN16 RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr(EC)}$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}$, xn), E=214-244 MeV and subsequent decays]; measured $E\alpha$, $I\alpha$, conversion electrons, $E\gamma$, $I\gamma$, $\gamma\alpha$ -, (ce)a-coin, $T_{1/2}$. ^{250}Md ; deduced levels, J, π , $T_{1/2}$. JOUR ZAANE 38 219
- ^{247}Fm 2009DR02 RADIOACTIVITY ^{263}Hs , ^{259}Sg , ^{255}Rf , ^{251}No , $^{247}\text{Fm}(\alpha)$; measured $E\alpha$, half-lives. JOUR PRVCA 79 011602
- 2009F002 RADIOACTIVITY ^{259}Sg , ^{258}Sg , $^{255}\text{Rf}(\alpha)$, (SF), (EC), $^{251}\text{No}(\alpha)$; measured $E\alpha$, half-lives, decay modes. JOUR PRVCA 79 027602

A=248

- ^{248}Cm 2009RZ01 RADIOACTIVITY $^{248}\text{Cm(SF)}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(\text{lin pol})$. $^{92,94,96}\text{Sr}$; deduced levels, J, π , multipolarity, bands, configurations. Comparison with shell-model calculations. JOUR PRVCA 79 024319

A=249

- ^{249}Cm 2008IS05 NUCLEAR REACTIONS $^{248}\text{Cm}(^{16}\text{O}, ^{15}\text{O})$, ($^{18}\text{O}, ^{17}\text{O}$), E=162 MeV; $^{248}\text{Cm}(^{13}\text{C}, ^{12}\text{C})$, E=120 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, half-lives, σ . ^{249}Cm ; deduced levels, J, π , bands, configurations. JOUR PRVCA 78 054309

A=250

- ^{250}Fm 2008AN16 RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr(EC)}$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}$, xn), E=214-244 MeV and subsequent decays]; measured $E\alpha$, $I\alpha$, conversion electrons, $E\gamma$, $I\gamma$, $\gamma\alpha$ -, (ce)a-coin, $T_{1/2}$. ^{250}Md ; deduced levels, J, π , $T_{1/2}$. JOUR ZAANE 38 219
- 2009NE02 RADIOACTIVITY ^{266}Mt , ^{262}Bh , ^{258}Db , ^{254}Lr , No, ^{250}Md , $\text{Fm}(\alpha)$, ^{254}Lr , $^{250}\text{Md(EC)}$; measured $E\alpha$, half-lives, decay modes. JOUR PRVCA 79 027605

KEYNUMBERS AND KEYWORDS

A=250 (continued)

- ²⁵⁰Md 2008AN16 RADIOACTIVITY ^{250,251}Md, ^{254,255,256}Lr(EC), (α) [from ²⁰⁹Bi(⁴⁸Ca, xn), E=214-244 MeV and subsequent decays]; measured E α , I α , conversion electrons, E γ , I γ , γ a-, (ce)a-coin, T_{1/2}. ²⁵⁰Md; deduced levels, J, π , T_{1/2}. JOUR ZAANE 38 219
- 2009NE02 RADIOACTIVITY ²⁶⁶Mt, ²⁶²Bh, ²⁵⁸Db, ²⁵⁴Lr, No, ²⁵⁰Md, Fm(α), ²⁵⁴Lr, ²⁵⁰Md(EC); measured E α , half-lives, decay modes. JOUR PRVCA 79 027605

A=251

- ²⁵¹Fm 2008AN16 RADIOACTIVITY ^{250,251}Md, ^{254,255,256}Lr(EC), (α) [from ²⁰⁹Bi(⁴⁸Ca, xn), E=214-244 MeV and subsequent decays]; measured E α , I α , conversion electrons, E γ , I γ , γ a-, (ce)a-coin, T_{1/2}. ²⁵⁰Md; deduced levels, J, π , T_{1/2}. JOUR ZAANE 38 219
- ²⁵¹Md 2008AN16 RADIOACTIVITY ^{250,251}Md, ^{254,255,256}Lr(EC), (α) [from ²⁰⁹Bi(⁴⁸Ca, xn), E=214-244 MeV and subsequent decays]; measured E α , I α , conversion electrons, E γ , I γ , γ a-, (ce)a-coin, T_{1/2}. ²⁵⁰Md; deduced levels, J, π , T_{1/2}. JOUR ZAANE 38 219
- ²⁵¹No 2009DR02 RADIOACTIVITY ²⁶³Hs, ²⁵⁹Sg, ²⁵⁵Rf, ²⁵¹No, ²⁴⁷Fm(α); measured E α , half-lives. JOUR PRVCA 79 011602
- 2009F002 RADIOACTIVITY ²⁵⁹Sg, ²⁵⁸Sg, ²⁵⁵Rf(α), (SF), (EC), ²⁵¹No(α); measured E α , half-lives, decay modes. JOUR PRVCA 79 027602

A=252

- ²⁵²Cf 2008MU24 RADIOACTIVITY ²⁵²Cf(SF); measured E α , I α for ternary α particles, ternary ⁶He-spectra; deduced ⁶He / ⁴He ratio. JOUR PRVCA 78 064616
- 2008XU08 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , γ γ -coin. ¹⁰⁸Tc; deduced levels, J, π , bands, B(E1) / B(E2) ratios. ^{106,107}Mo, ¹⁰⁷Tc; deduced bands. Comparison with particle-rotor model calculations. JOUR PRVCA 78 064301
- 2009LU01 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , γ γ -coin using Gammasphere array. ^{108,110,112}Ru; deduced levels, J, π , rotational bands, B(E2) / B(M1). Tilted axis cranking and RPA calculations. JOUR PYLBB 670 307
- 2009LU04 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , γ γ -coin and fission yield ratios of ^{103,104,105}Nb, ^{143,144}La using Gammasphere. ^{143,144}La deduced levels, J, π , band configurations, branching ratios, B(E1) / B(E2) ratios. Cranked-shell model calculations. JOUR NUPAB 818 121
- ²⁵²Md 2008AN16 RADIOACTIVITY ^{250,251}Md, ^{254,255,256}Lr(EC), (α) [from ²⁰⁹Bi(⁴⁸Ca, xn), E=214-244 MeV and subsequent decays]; measured E α , I α , conversion electrons, E γ , I γ , γ a-, (ce)a-coin, T_{1/2}. ²⁵⁰Md; deduced levels, J, π , T_{1/2}. JOUR ZAANE 38 219

KEYNUMBERS AND KEYWORDS

A=253

No references found

A=254

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|-------------------|----------|--|
| ^{254}No | 2008AN16 | RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr}(\text{EC})$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})$, E=214-244 MeV and subsequent decays]; measured $\text{E}\alpha$, $\text{I}\alpha$, conversion electrons, $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\alpha$ -, (ce)a-coin, $\text{T}_{1/2}$. ^{250}Md ; deduced levels, J, π , $\text{T}_{1/2}$. JOUR ZAANE 38 219 |
| | 2009NE02 | RADIOACTIVITY ^{266}Mt , ^{262}Bh , ^{258}Db , ^{254}Lr , No, ^{250}Md , $\text{Fm}(\alpha)$, ^{254}Lr , $^{250}\text{Md}(\text{EC})$; measured $\text{E}\alpha$, half-lives, decay modes. JOUR PRVCA 79 027605 |
| ^{254}Lr | 2008AN16 | RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr}(\text{EC})$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})$, E=214-244 MeV and subsequent decays]; measured $\text{E}\alpha$, $\text{I}\alpha$, conversion electrons, $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\alpha$ -, (ce)a-coin, $\text{T}_{1/2}$. ^{250}Md ; deduced levels, J, π , $\text{T}_{1/2}$. JOUR ZAANE 38 219 |
| | 2009NE02 | RADIOACTIVITY ^{266}Mt , ^{262}Bh , ^{258}Db , ^{254}Lr , No, ^{250}Md , $\text{Fm}(\alpha)$, ^{254}Lr , $^{250}\text{Md}(\text{EC})$; measured $\text{E}\alpha$, half-lives, decay modes. JOUR PRVCA 79 027605 |
| ^{254}Rf | 2009F002 | RADIOACTIVITY ^{259}Sg , ^{258}Sg , $^{255}\text{Rf}(\alpha)$, (SF), (EC), $^{251}\text{No}(\alpha)$; measured $\text{E}\alpha$, half-lives, decay modes. JOUR PRVCA 79 027602 |

A=255

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| ^{255}No | 2008AN16 | RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr}(\text{EC})$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})$, E=214-244 MeV and subsequent decays]; measured $\text{E}\alpha$, $\text{I}\alpha$, conversion electrons, $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\alpha$ -, (ce)a-coin, $\text{T}_{1/2}$. ^{250}Md ; deduced levels, J, π , $\text{T}_{1/2}$. JOUR ZAANE 38 219 |
| ^{255}Lr | 2008AN16 | RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr}(\text{EC})$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})$, E=214-244 MeV and subsequent decays]; measured $\text{E}\alpha$, $\text{I}\alpha$, conversion electrons, $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\alpha$ -, (ce)a-coin, $\text{T}_{1/2}$. ^{250}Md ; deduced levels, J, π , $\text{T}_{1/2}$. JOUR ZAANE 38 219 |
| | 2008AN16 | NUCLEAR REACTIONS $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})^{255}\text{Lr} / ^{256}\text{Lr}$, E=214, 218 MeV; measured σ . JOUR ZAANE 38 219 |
| | 2009F002 | RADIOACTIVITY ^{259}Sg , ^{258}Sg , $^{255}\text{Rf}(\alpha)$, (SF), (EC), $^{251}\text{No}(\alpha)$; measured $\text{E}\alpha$, half-lives, decay modes. JOUR PRVCA 79 027602 |
| ^{255}Rf | 2009DR02 | RADIOACTIVITY ^{263}Hs , ^{259}Sg , ^{255}Rf , ^{251}No , $^{247}\text{Fm}(\alpha)$; measured $\text{E}\alpha$, half-lives. JOUR PRVCA 79 011602 |
| | 2009F002 | RADIOACTIVITY ^{259}Sg , ^{258}Sg , $^{255}\text{Rf}(\alpha)$, (SF), (EC), $^{251}\text{No}(\alpha)$; measured $\text{E}\alpha$, half-lives, decay modes. JOUR PRVCA 79 027602 |

A=256

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|-------------------|----------|--|
| ^{256}No | 2008AN16 | RADIOACTIVITY $^{250,251}\text{Md}$, $^{254,255,256}\text{Lr}(\text{EC})$, (α) [from $^{209}\text{Bi}(^{48}\text{Ca}, \text{xn})$, E=214-244 MeV and subsequent decays]; measured $\text{E}\alpha$, $\text{I}\alpha$, conversion electrons, $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\alpha$ -, (ce)a-coin, $\text{T}_{1/2}$. ^{250}Md ; deduced levels, J, π , $\text{T}_{1/2}$. JOUR ZAANE 38 219 |
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KEYNUMBERS AND KEYWORDS

A=256 (continued)

- ²⁵⁶Lr 2008AN16 RADIOACTIVITY ^{250,251}Md, ^{254,255,256}Lr(EC), (α) [from ²⁰⁹Bi(⁴⁸Ca, xn), E=214-244 MeV and subsequent decays]; measured E α , I α , conversion electrons, E γ , I γ , $\gamma\alpha$ -, (ce)a-coin, T_{1/2}. ²⁵⁰Md; deduced levels, J, π , T_{1/2}. JOUR ZAANE 38 219
- 2008AN16 NUCLEAR REACTIONS ²⁰⁹Bi(⁴⁸Ca, xn)²⁵⁵Lr / ²⁵⁶Lr, E=214, 218 MeV; measured σ . JOUR ZAANE 38 219

A=257

No references found

A=258

- ²⁵⁸Db 2009F002 RADIOACTIVITY ²⁵⁹Sg, ²⁵⁸Sg, ²⁵⁵Rf(α), (SF), (EC), ²⁵¹No(α); measured E α , half-lives, decay modes. JOUR PRVCA 79 027602
- 2009NE02 RADIOACTIVITY ²⁶⁶Mt, ²⁶²Bh, ²⁵⁸Db, ²⁵⁴Lr, No, ²⁵⁰Md, Fm(α), ²⁵⁴Lr, ²⁵⁰Md(EC); measured E α , half-lives, decay modes. JOUR PRVCA 79 027605
- ²⁵⁸Sg 2009F002 NUCLEAR REACTIONS ²⁰⁸Pb(⁵²Cr, n)²⁵⁹Sg, E=250.7-266.2 MeV; ²⁰⁸Pb(⁵²Cr, 2n)²⁵⁸Sg, E=250.7-266.2 MeV. Measured excitation functions, σ . JOUR PRVCA 79 027602
- 2009F002 RADIOACTIVITY ²⁵⁹Sg, ²⁵⁸Sg, ²⁵⁵Rf(α), (SF), (EC), ²⁵¹No(α); measured E α , half-lives, decay modes. JOUR PRVCA 79 027602

A=259

- ²⁵⁹Db 2009F002 RADIOACTIVITY ²⁵⁹Sg, ²⁵⁸Sg, ²⁵⁵Rf(α), (SF), (EC), ²⁵¹No(α); measured E α , half-lives, decay modes. JOUR PRVCA 79 027602
- ²⁵⁹Sg 2009DR02 RADIOACTIVITY ²⁶³Hs, ²⁵⁹Sg, ²⁵⁵Rf, ²⁵¹No, ²⁴⁷Fm(α); measured E α , half-lives. JOUR PRVCA 79 011602
- 2009F002 NUCLEAR REACTIONS ²⁰⁸Pb(⁵²Cr, n)²⁵⁹Sg, E=250.7-266.2 MeV; ²⁰⁸Pb(⁵²Cr, 2n)²⁵⁸Sg, E=250.7-266.2 MeV. Measured excitation functions, σ . JOUR PRVCA 79 027602
- 2009F002 RADIOACTIVITY ²⁵⁹Sg, ²⁵⁸Sg, ²⁵⁵Rf(α), (SF), (EC), ²⁵¹No(α); measured E α , half-lives, decay modes. JOUR PRVCA 79 027602

A=260

No references found

A=261

No references found

KEYNUMBERS AND KEYWORDS

A=262

²⁶²Bh 2009NE02 RADIOACTIVITY ²⁶⁶Mt, ²⁶²Bh, ²⁵⁸Db, ²⁵⁴Lr, No, ²⁵⁰Md, Fm(α),
²⁵⁴Lr, ²⁵⁰Md(EC); measured E α , half-lives, decay modes. JOUR
PRVCA 79 027605

A=263

²⁶³Hs 2009DR02 NUCLEAR REACTIONS ²⁰⁸Pb(⁵⁶Fe, n), E=276.4 MeV; measured σ .
JOUR PRVCA 79 011602
2009DR02 RADIOACTIVITY ²⁶³Hs, ²⁵⁹Sg, ²⁵⁵Rf, ²⁵¹No, ²⁴⁷Fm(α); measured
E α , half-lives. JOUR PRVCA 79 011602

A=264

No references found

A=265

No references found

A=266

²⁶⁶Mt 2009NE02 NUCLEAR REACTIONS ²⁰⁸Pb(⁵⁹Co, n)²⁶⁶Mt, E=295 MeV;
measured production cross section JOUR PRVCA 79 027605
2009NE02 RADIOACTIVITY ²⁶⁶Mt, ²⁶²Bh, ²⁵⁸Db, ²⁵⁴Lr, No, ²⁵⁰Md, Fm(α),
²⁵⁴Lr, ²⁵⁰Md(EC); measured E α , half-lives, decay modes. JOUR
PRVCA 79 027605

A=267

No references found

A=268

No references found

A=269

²⁶⁹Hs 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰HS / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

A=270

²⁷⁰Hs 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰HS / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

A=271

²⁷¹Hs 20090G03 NUCLEAR REACTIONS ¹³⁶Xe(¹³⁶Xe, xn)²⁶⁹Hs / ²⁷⁰HS / ²⁷¹Hs, E=750 MeV; measured E α , I α , upper limit of production σ for Z=108 element; deduced fusion probability. Calculated excitation functions for one-neutron to four-neutron channels. Ti(¹³⁶Xe, xn)¹⁶⁸Os / ¹⁶⁹Os / ¹⁷⁰Os / ¹⁷¹Os / ¹⁷²Os / , E=750 MeV; measured E α , I α . JOUR PRVCA 79 024608

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KEYNUMBERS AND KEYWORDS

A=296

No references found

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No references found

A=298

$^{298}_{120}$	20090G02	NUCLEAR REACTIONS $^{244}\text{Pu}(^{58}\text{Fe}, \text{xn})^{298}_{120} / ^{299}_{120}$, E=330.4 MeV; measured α -particle spectra, (evaporation residues) α -coin, and upper limit of production cross section for Z=120 element. No decay chains for $^{298}_{120}$ and $^{299}_{120}$ were observed. JOUR PRVCA 79 024603
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A=299

$^{299}_{120}$	20090G02	NUCLEAR REACTIONS $^{244}\text{Pu}(^{58}\text{Fe}, \text{xn})^{298}_{120} / ^{299}_{120}$, E=330.4 MeV; measured α -particle spectra, (evaporation residues) α -coin, and upper limit of production cross section for Z=120 element. No decay chains for $^{298}_{120}$ and $^{299}_{120}$ were observed. JOUR PRVCA 79 024603
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