

Recent References:
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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 October 1, 2010 to December 31, 2010. 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

¹ n	2009COZW	NUCLEAR REACTIONS ² H(n, np), E=16-19 MeV; measured Ep, Ip, En, In, pn-coin.; deduced $\sigma(\theta_1, \theta_2)$. Comparison with other data and Bonn-B potential calculations. REPT TUNL-XLVIII,P57,Couture
	2010FE08	NUCLEAR MOMENTS ¹ n; measured En, In, neutron beam polarization; deduced polarization tensor components, neutron electric dipole moment. JOUR PYLBB 694 22
	2010LA11	NUCLEAR REACTIONS ² H(¹¹ B, α ⁸ Be), E=27 MeV; ² H(¹⁰ B, α ⁷ Be), E=24.4 MeV; measured E α , I $\alpha(\theta)$, E(particle), I(particle). ¹¹ B(p, α), E(cm)=0-0.6 MeV; ¹⁰ B(p, α), E(cm)=0-0.15 MeV; deduced S-factor using Trojan Horse Method. JOUR NUPAB 834 655c
	2010LI38	NUCLEAR REACTIONS ² H(⁶ He, ⁷ Li), E not given; ¹² C(⁷ Li, ⁶ He), E=44.0 MeV; measured $\sigma(\theta)$; deduced ¹² C(p, γ) S-factor; calculated S-factor using DWBA and asymptotic normalization coefficient. Comparison with other data. JOUR NUPAB 834 661c
	2010SA25	NUCLEAR REACTIONS ¹ H(¹⁷ C, ¹⁷ C'), (¹⁹ C, ¹⁹ C'), E=70 MeV / nucleon; measured Ep, Ip, fragment-spectra; deduced levels, J, π , $\sigma(\theta)$; calculated levels, J, π using shell model with different forces, $\sigma(\theta)$ using DWBA with WBT shell model wave function. ¹ H(¹⁴ Be, ¹⁴ B), E=70 MeV / nucleon; measured E β , I β , fragment-spectra; deduced low-lying levels, J, π ; calculated levels, J, π using shell model, β -decay strength B(GT). Secondary radioactive beams. Inverse kinematics. JOUR NUPAB 834 404c
	2010SE11	NUCLEAR REACTIONS ² H(¹⁷ O, α ¹⁴ N), E=41 MeV; measured σ , $\sigma(\theta)$. ¹⁷ O(p, α), E=0-0.7 MeV; deduced $\sigma(\theta)$. ¹⁸ F; deduced levels using Trojan Horse Method. JOUR NUPAB 834 676c
	2010SE13	NUCLEAR REACTIONS ² H(¹⁷ O, α ¹⁴ N), E=41 MeV; measured ¹⁴ N spectrum, $\sigma(\theta)$, momentum distribution and differential σ for resonances above the ¹⁸ F proton threshold. ¹⁸ F; deduced resonances and levels. Comparison of experimental momentum distribution with plane-wave impulse approximation (PWIA) and distorted-wave Born approximation (DWBA) calculations. ¹⁷ O(p, α) ¹⁴ N; deduced reaction rates of astrophysical relevance. JOUR PRVCA 82 032801
¹ H	2010BE29	NUCLEAR REACTIONS Fe, Bi(n, xp), (n, xd), (n, xt) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=175 MeV; measured reaction products; deduced $\sigma(\theta)$. Comparison with TALYS model code. JOUR RMEAE 45 1145
	2010CH38	NUCLEAR REACTIONS ¹ H(²⁵ Al, ²⁵ Al), E \approx 3.4 MeV / nucleon; measured $\sigma(\theta)$. ¹ H(²⁷ Si, ²⁶ Si), E=89 MeV / nucleon; measured E γ , I γ , E(particle), I(particle), (particle) γ -coin. ²⁶ Si deduced levels, J, π , resonance parameteres using R-matrix fit. JOUR NUPAB 834 667c
	2010EL05	NUCLEAR REACTIONS ¹ H(²¹ N, ²¹ N'), (²¹ N, X), E=52.0 MeV; ²⁰⁸ Pb(²¹ N, ²¹ N'), (²¹ N, X), E=48.1 MeV, [secondary ²¹ N beam from ¹⁸¹ Ta(⁴⁰ Ar, X), E=63 MeV / nucleon primary reaction]; measured particle spectra, E γ , I γ , $\gamma\gamma$ -coin, cross sections. ^{19,21} N; deduced levels, B(E2). GEANT4 simulation of γ -ray spectra. JOUR PRVCA 82 027305

KEYNUMBERS AND KEYWORDS

A=1 (continued)

- 2010GU17 NUCLEAR REACTIONS $^2\text{H}(^6\text{Li}, t\alpha)$, $E=14, 17$ MeV; measured reaction products; deduced σ for $^6\text{Li}(n, \alpha)$ reaction. JOUR JPGPE 37 125105
- 2010KA24 NUCLEAR REACTIONS $^2\text{H}(^{11}\text{Be}, ^{12}\text{Be})$, $E=5$ MeV / nucleon; measured E_p , $I_p(\theta)$, (particle)p-coin; deduced $\sigma(\theta)$ to isolated states, spectroscopic factor. ^{12}Be ; deduced levels, J , π . $^{12}\text{C}(^{24}\text{O}, ^{23}\text{O})$, $E=920$ MeV / nucleon; measured momentum distribution, spectroscopic factor. Comparison with systematics. Secondary radioactive beams. JOUR NUPAB 834 505c
- 2010SA25 NUCLEAR REACTIONS $^1\text{H}(^{17}\text{C}, ^{17}\text{C}')$, $(^{19}\text{C}, ^{19}\text{C}')$, $E=70$ MeV / nucleon; measured E_p , I_p , fragment-spectra; deduced levels, J , π , $\sigma(\theta)$; calculated levels, J , π using shell model with different forces, $\sigma(\theta)$ using DWBA with WBT shell model wave function. $^1\text{H}(^{14}\text{Be}, ^{14}\text{B})$, $E=70$ MeV / nucleon; measured $E\beta$, $I\beta$, fragment-spectra; deduced low-lying levels, J , π ; calculated levels, J , π using shell model, β -decay strength $B(\text{GT})$. Secondary radioactive beams. Inverse kinematics. JOUR NUPAB 834 404c
- 2010TI06 NUCLEAR REACTIONS $\text{C}(n, pX)$, (n, dX) , (n, tX) , $(n, ^3\text{HeX})$, $(n, \alpha X)^1\text{H} / ^2\text{H} / ^3\text{H} / ^3\text{He} / ^4\text{He}$, $E=96$ MeV; measured neutron time of flight, reaction products; deduced $\sigma(\theta, E)$, $\sigma(E)$, σ . Comparison with GNASH and TALYS calculations. JOUR RMEAE 45 1134
- 2010UE01 NUCLEAR REACTIONS $^1\text{H}(^6\text{He}, ^6\text{He})$, $E=71$ MeV / nucleon; measured $\sigma(\theta)$, vector analyzing power, polarized proton solid target. Comparison with t-matrix and g-matrix microscopic folding calculations. Discussed α -core distribution in ^6He . JOUR PRVCA 82 021602

A=2

- ^2n 2010SI23 NUCLEAR REACTIONS $^4\text{He}(^6\text{He}, 2\alpha)$, $E=25$ MeV / nucleon; measured $E\alpha$, $I\alpha$, $\alpha\alpha$ -coin; deduced σ , $\sigma(\theta)$, neutron momentum spectrum and reaction mechanism features. Monte-Carlo simulation and PWIA of quasi-free scattering. Secondary radioactive beam. JOUR NUPAB 840 1
- ^2H 2009TOZV NUCLEAR REACTIONS $^3\text{He}(\gamma, p)$, $E=8.78\text{-}12.78$ MeV; measured σ ; calculated σ . Comparison with published calculations and other data. REPT TUNL-XLVIII,P85,Tornow
- 2010BE29 NUCLEAR REACTIONS $\text{Fe}, \text{Bi}(n, xp)$, (n, xd) , $(n, xt)^1\text{H} / ^2\text{H} / ^3\text{H} / ^3\text{He} / ^4\text{He}$, $E=175$ MeV; measured reaction products; deduced $\sigma(\theta)$. Comparison with TALYS model code. JOUR RMEAE 45 1145
- 2010CH38 NUCLEAR REACTIONS $^1\text{H}(^{25}\text{Al}, ^{25}\text{Al})$, $E\approx 3.4$ MeV / nucleon; measured $\sigma(\theta)$. $^1\text{H}(^{27}\text{Si}, ^{26}\text{Si})$, $E=89$ MeV / nucleon; measured $E\gamma$, $I\gamma$, $E(\text{particle})$, $I(\text{particle})$, (particle) γ -coin. ^{26}Si deduced levels, J , π , resonance parameters using R-matrix fit. JOUR NUPAB 834 667c
- 2010HA21 NUCLEAR REACTIONS $^2\text{H}(\gamma, 2p\pi^-)$, $(\gamma, \pi^+\pi^-)$, $E=0.8\text{-}1.1$ GeV; measured σ , $\Delta^{++}\Delta^-$ production. JOUR NUPAB 834 596c

KEYNUMBERS AND KEYWORDS

A=2 (continued)

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| | 2010TI06 | NUCLEAR REACTIONS C(n, pX), (n, dX), (n, tX), (n, ³ HeX), (n, αX) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=96 MeV; measured neutron time of flight, reaction products; deduced $\sigma(\theta, E)$, $\sigma(E)$, σ . Comparison with GNASH and TALYS calculations. JOUR RMEAE 45 1134 |
| ² He | 2009GAZV | NUCLEAR REACTIONS ³ He(γ , n), E=11.4 MeV; measured E_n , $\ln(\theta)$ using polarized γ and target; deduced asymmetry. Compared with calculations by others. REPT TUNL-XLVIII,P81,Gao |
| | 2009PEZX | NUCLEAR REACTIONS ³ He(γ , n), E=12.8, 13.5, 14.7 MeV; measured E_n , $\ln(\theta=90^0)$; deduced $\sigma(E, \theta)$. Compared with simulations and calculations. REPT TUNL-XLVIII,P83,Perdue |

A=3

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| ³ H | 2010BE23 | NUCLEAR REACTIONS ² H(²⁰ O, ¹⁹ O), E=11 MeV / nucleon; measured E_γ , I_γ , E(particle), I(particle), (particle) γ -coin. ¹⁹ O deduced low-lying levels, J, π , spectroscopic factor. ¹ H(¹⁴ O, ¹² O), E=51 MeV / nucleon; measured E(particle), I(particle), excitation energy spectra, $\sigma(\theta)$; deduced levels, J, π ; calculated $\sigma(\theta)$ using DWBA. MUST2, TIARA and EXOGAM detector arrays and VAMOS spectrometer. Secondary radioactive beams. JOUR NUPAB 834 446c |
| | 2010BE29 | NUCLEAR REACTIONS Fe, Bi(n, xp), (n, xd), (n, xt) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=175 MeV; measured reaction products; deduced $\sigma(\theta)$. Comparison with TALYS model code. JOUR RMEAE 45 1145 |
| | 2010TI06 | NUCLEAR REACTIONS C(n, pX), (n, dX), (n, tX), (n, ³ HeX), (n, αX) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=96 MeV; measured neutron time of flight, reaction products; deduced $\sigma(\theta, E)$, $\sigma(E)$, σ . Comparison with GNASH and TALYS calculations. JOUR RMEAE 45 1134 |
| ³ He | 2010BE29 | NUCLEAR REACTIONS Fe, Bi(n, xp), (n, xd), (n, xt) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=175 MeV; measured reaction products; deduced $\sigma(\theta)$. Comparison with TALYS model code. JOUR RMEAE 45 1145 |
| | 2010DA18 | NUCLEAR REACTIONS ³ He(polarized p, p), E=2-6 MeV; measured E_p , I_p , analyzing powers; deduced phase shifts, spin-correlation coefficients using polarized ³ He target. Comparison with theoretical calculations using realistic nucleon-nucleon potential models. JOUR PRVCA 82 034002 |
| | 2010TI06 | NUCLEAR REACTIONS C(n, pX), (n, dX), (n, tX), (n, ³ HeX), (n, αX) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=96 MeV; measured neutron time of flight, reaction products; deduced $\sigma(\theta, E)$, $\sigma(E)$, σ . Comparison with GNASH and TALYS calculations. JOUR RMEAE 45 1134 |

A=4

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| ⁴ He | 2010BE29 | NUCLEAR REACTIONS Fe, Bi(n, xp), (n, xd), (n, xt) ¹ H / ² H / ³ H / ³ He / ⁴ He, E=175 MeV; measured reaction products; deduced $\sigma(\theta)$. Comparison with TALYS model code. JOUR RMEAE 45 1145 |
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KEYNUMBERS AND KEYWORDS

A=4 (continued)

2010TI06 NUCLEAR REACTIONS C(n, pX), (n, dX), (n, tX), (n, ^3HeX), (n, αX) ^1H / ^2H / ^3H / ^3He / ^4He , E=96 MeV; measured neutron time of flight, reaction products; deduced $\sigma(\theta, E)$, $\sigma(E)$, σ . Comparison with GNASH and TALYS calculations. JOUR RMEAE 45 1134

A=5

^5He 2010LE14 NUCLEAR REACTIONS $^1\text{H}(^8\text{Li}, \alpha)$, E=13.2, 14.5, 17.4, 19.0 MeV; measured $E\alpha$, $I\alpha(\theta=\text{forward})$; deduced $\sigma(\theta=\text{forward})$, effect of halo nuclei. $^9\text{Be}(^6\text{He}, ^6\text{He})$, E=16.2 MeV; measured $\sigma(\theta)$; deduced effect of halo nuclei. JOUR NUPAB 834 491c

A=6

^6Li 2009URZY RADIOACTIVITY $^{10}\text{B}(\text{p})$, (α)[from $^{11}\text{B}(^3\text{He}, \alpha)$]; measured E_p , I_p , $E\alpha$, $I\alpha$ dependent on ^{10}B excitation energy. CONF Dub(Nucl Struct and Dynamics,09) Proc,P31

2010LI37 NUCLEAR REACTIONS $^7\text{Li}(^6\text{Li}, ^7\text{Li})$, E=tandem; measured $E(\text{particle})$, $I(\text{particle}, \theta)$; deduced spectroscopic factor, σ . $^6\text{Li}(\text{n}, \gamma)$, E=0.01-0.1 MeV; deduced σ . Comparison with other data and systems, calculations. JOUR NUPAB 834 651c

^6Be 2010CH42 RADIOACTIVITY $^8\text{C}(2\text{p})$; measured E_p , I_p , $E\alpha$, $I\alpha$, α -p-p-p-p coin, α -p-p coin from the decay of ^8C g.s. JOUR PRVCA 82 041304

A=7

^7Li 2010LI37 NUCLEAR REACTIONS $^7\text{Li}(^6\text{Li}, ^7\text{Li})$, E=tandem; measured $E(\text{particle})$, $I(\text{particle}, \theta)$; deduced spectroscopic factor, σ . $^6\text{Li}(\text{n}, \gamma)$, E=0.01-0.1 MeV; deduced σ . Comparison with other data and systems, calculations. JOUR NUPAB 834 651c

^7Be 2010LA11 NUCLEAR REACTIONS $^2\text{H}(^{11}\text{B}, \alpha^8\text{Be})$, E=27 MeV; $^2\text{H}(^{10}\text{B}, \alpha^7\text{Be})$, E=24.4 MeV; measured $E\alpha$, $I\alpha(\theta)$, $E(\text{particle})$, $I(\text{particle})$. $^{11}\text{B}(\text{p}, \alpha)$, $E(\text{cm})=0-0.6$ MeV; $^{10}\text{B}(\text{p}, \alpha)$, $E(\text{cm})=0-0.15$ MeV; deduced S-factor using Trojan Horse Method. JOUR NUPAB 834 655c

A=8

^8He 2010LE19 RADIOACTIVITY $^8\text{He}(\beta^-)$ [from $^{65}\text{Cu}(^8\text{He}, ^8\text{He})$, E=19.9, 30.6 MeV]; measured $E\gamma$. JOUR PRVCA 82 044617

^8Li 2010FL01 RADIOACTIVITY $^8\text{Li}(\beta^-)$ [from $^7\text{Li}(\text{d}, \text{p})$, E=1.98 MeV]; measured $E\beta$, $I\beta$, half-life. Comparison with previous measurements. JOUR PRVCA 82 027309

2010LE19 RADIOACTIVITY $^8\text{He}(\beta^-)$ [from $^{65}\text{Cu}(^8\text{He}, ^8\text{He})$, E=19.9, 30.6 MeV]; measured $E\gamma$. JOUR PRVCA 82 044617

KEYNUMBERS AND KEYWORDS

A=8 (continued)

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| ^8Be | 2009ARZY | NUCLEAR REACTIONS $^9\text{Be}(\gamma, n)$, $E=\text{threshold}-5.2$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . REPT TUNL-XLVIII,P101,Arnold |
| | 2009SEZX | NUCLEAR REACTIONS $^{11}\text{B}(p, \alpha)$, $E=150=400$ keV; measured $E\alpha$, $I\alpha(\theta)$. REPT TUNL-XLVIII,P69,Seo |
| | 2010FL01 | RADIOACTIVITY $^8\text{Li}(\beta^-)$ [from $^7\text{Li}(d, p)$, $E=1.98$ MeV]; measured $E\beta$, $I\beta$, half-life. Comparison with previous measurements. JOUR PRVCA 82 027309 |
| | 2010K033 | NUCLEAR REACTIONS $^{11}\text{B}(p, \alpha)$, (p, p) , $E=2.2-4.2$ MeV; measured proton spectrum, $E\alpha$, $I\alpha$; deduced yields, $\sigma(\theta)$. Ion Beam Analysis (IBA) techniques. JOUR NIMBE 268 3539 |
| | 2010LA11 | NUCLEAR REACTIONS $^2\text{H}(^{11}\text{B}, \alpha^8\text{Be})$, $E=27$ MeV; $^2\text{H}(^{10}\text{B}, \alpha^7\text{Be})$, $E=24.4$ MeV; measured $E\alpha$, $I\alpha(\theta)$, $E(\text{particle})$, $I(\text{particle})$. $^{11}\text{B}(p, \alpha)$, $E(\text{cm})=0-0.6$ MeV; $^{10}\text{B}(p, \alpha)$, $E(\text{cm})=0-0.15$ MeV; deduced S-factor using Trojan Horse Method. JOUR NUPAB 834 655c |
| ^8C | 2010CH42 | RADIOACTIVITY $^8\text{C}(2p)$; measured E_p , I_p , $E\alpha$, $I\alpha$, α -p-p-p-p coin, α -p-p coin from the decay of ^8C g.s. JOUR PRVCA 82 041304 |

A=9

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| ^9He | 2010J006 | NUCLEAR REACTIONS $^1\text{H}(^{11}\text{Li}, 2p)$, $(^{11}\text{Li}, n2p)$, $E=280$ MeV / nucleon; measured fragment spectra, neutron spectra, (fragment)(neutron)-coin, relative energy spectra; deduced resonance state parameters. JOUR NUPAB 842 15 |
| ^9Be | 2009URZY | RADIOACTIVITY $^{10}\text{B}(p)$, (α) [from $^{11}\text{B}(^3\text{He}, \alpha)$]; measured E_p , I_p , $E\alpha$, $I\alpha$ dependent on ^{10}B excitation energy. CONF Dub(Nucl Struct and Dynamics,09) Proc,P31 |
| | 2010LE14 | NUCLEAR REACTIONS $^1\text{H}(^8\text{Li}, \alpha)$, $E=13.2, 14.5, 17.4, 19.0$ MeV; measured $E\alpha$, $I\alpha(\theta=\text{forward})$; deduced $\sigma(\theta=\text{forward})$, effect of halo nuclei. $^9\text{Be}(^6\text{He}, ^6\text{He})$, $E=16.2$ MeV; measured $\sigma(\theta)$; deduced effect of halo nuclei. JOUR NUPAB 834 491c |
| | 2010MU09 | NUCLEAR REACTIONS $^9\text{Be}, ^{51}\text{V}(^8\text{Li}, ^8\text{Li})$, $(^8\text{Li}, X)$, $E=18.5, 19.6$ MeV; measured σ , $\sigma(\theta)$; calculated $\sigma(\theta)$ using Sao Paulo potential and WS form factors; deduced optical model parameters. Comparison with other reactions. Secondary radioactive beam. JOUR ZAANE 45 23 |

A=10

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| ^{10}He | 2010J006 | NUCLEAR REACTIONS $^1\text{H}(^{11}\text{Li}, 2p)$, $(^{11}\text{Li}, n2p)$, $E=280$ MeV / nucleon; measured fragment spectra, neutron spectra, (fragment)(neutron)-coin, relative energy spectra; deduced resonance state parameters. JOUR NUPAB 842 15 |
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KEYNUMBERS AND KEYWORDS

A=10 (continued)

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| ^{10}Be | 2010CH42 | NUCLEAR REACTIONS $^9\text{Be}(^9\text{C}, ^8\text{B})$, [^9C beam from $^9\text{Be}(^{16}\text{O}, \text{X})$ fragmentation], $E=70$ MeV / nucleon; measured E_p , I_p , ^6Li -p-p correlated events from an excited state (IAS of ^8C g.s.) in ^8B by analyzing complete kinematics of $2p+^6\text{Li}$ decay products; deduced $2p$ decay (isospin-allowed $2p$ decay between isobaric analog states). $^9\text{Be}(^9\text{C}, ^8\text{C})$, [^9C beam from $^9\text{Be}(^{16}\text{O}, \text{X})$ fragmentation], $E=70$ MeV / nucleon; measured E_p , I_p , ^6Be -p-p and α -p-p-p-p correlated events from ^8C g.s. by analyzing complete kinematics of $2p+^6\text{Be}$ and $\alpha+2p+2p$ events. JOUR PRVCA 82 041304 |
| | 2010C010 | NUCLEAR REACTIONS $^9\text{Be}(^{24}\text{Ne}, ^{23}\text{Ne})$, ($^{25}\text{Ne}, ^{24}\text{Ne}$), ($^{26}\text{Ne}, ^{25}\text{Ne}$), ($^{27}\text{Ne}, ^{26}\text{Ne}$), ($^{28}\text{Ne}, ^{27}\text{Ne}$), $E=\text{high}$ [from $^9\text{Be}(^{40}\text{Ar}, \text{X})$, $E=700$ MeV / nucleon]; measured momentum distributions. Comparison with calculations. JOUR NUPAB 834 485c |
| ^{10}B | 2009URZY | NUCLEAR REACTIONS $^{11}\text{B}(^3\text{He}, \alpha)$, $E=15$ MeV; measured E_α , $I_\alpha(\theta=67^\circ)$, $E(^{10}\text{B})$, $I(^{10}\text{B}, \theta=30^\circ)$. CONF Dub(Nucl Struct and Dynamics,09) Proc,P31 |
| | 2009URZY | RADIOACTIVITY $^{10}\text{B}(p)$, (α)[from $^{11}\text{B}(^3\text{He}, \alpha)$]; measured E_p , I_p , E_α , I_α dependent on ^{10}B excitation energy. CONF Dub(Nucl Struct and Dynamics,09) Proc,P31 |
| | 2010CH42 | NUCLEAR REACTIONS $^9\text{Be}(^9\text{C}, ^8\text{B})$, [^9C beam from $^9\text{Be}(^{16}\text{O}, \text{X})$ fragmentation], $E=70$ MeV / nucleon; measured E_p , I_p , ^6Li -p-p correlated events from an excited state (IAS of ^8C g.s.) in ^8B by analyzing complete kinematics of $2p+^6\text{Li}$ decay products; deduced $2p$ decay (isospin-allowed $2p$ decay between isobaric analog states). $^9\text{Be}(^9\text{C}, ^8\text{C})$, [^9C beam from $^9\text{Be}(^{16}\text{O}, \text{X})$ fragmentation], $E=70$ MeV / nucleon; measured E_p , I_p , ^6Be -p-p and α -p-p-p-p correlated events from ^8C g.s. by analyzing complete kinematics of $2p+^6\text{Be}$ and $\alpha+2p+2p$ events. JOUR PRVCA 82 041304 |

A=11

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| ^{11}Be | 2009FRZV | NUCLEAR REACTIONS $^{12}\text{C}(p, p')$, $E=66$ MeV; measured E_p , $I_p(\theta)$; deduced $\sigma(E, \theta)$. $^9\text{Be}(^{16}\text{O}, ^{14}\text{O})$, $E=234$ MeV; measured $E(\text{particle})$, $I(\text{particle}, \theta)$; deduced $\sigma(E)$, neutron decay widths. CONF Dub(Nucl Struct and Dynamics,09) Proc,P13 |
| | 2010FR03 | NUCLEAR REACTIONS $^{12}\text{C}(p, p')$, $E=66$ MeV; measured E_p , $I_p(\theta=10^\circ, 16^\circ, 28^\circ)$. $^9\text{Be}(^{16}\text{O}, ^{14}\text{O})$, $E=234$ MeV; measured $E(\text{particle})$, $I(\text{particle})$. ^{11}Be ; deduced levels, J , π . ^{11}Be , ^{12}C calculated levels, J , π , rotational and vibrational bands assuming $2\alpha+3n$ for ^{11}Be and 3α for ^{12}C . JOUR NUPAB 834 621c |
| ^{11}B | 2009FRZW | NUCLEAR REACTIONS $^{11}\text{B}(\alpha, \alpha)$, $E=1.5-8$ MeV; measured E_α , $I_\alpha(\theta)$. $^{11}\text{B}(\alpha, p)$, $E=4-7$ MeV; measured E_p , $I_p(\theta)$. Results to be analyzed. REPT TUNL-XLVIII,P65,France |
| | 2009RUZY | NUCLEAR REACTIONS $^{11}\text{B}(\gamma, \gamma')$, E not given; measured E_γ , $I_\gamma(\theta)$ using polarized γ ; deduced mixing ratio, asymmetry, analyzing powers; calculated asymmetry, mixing ratio. REPT TUNL-XLVIII,P87,Rusev |

KEYNUMBERS AND KEYWORDS

A=11 (continued)

- 2010K033 NUCLEAR REACTIONS $^{11}\text{B}(p, \alpha)$, (p, p) , $E=2.2\text{-}4.2$ MeV; measured proton spectrum, $E\alpha$, $I\alpha$; deduced yields, $\sigma(\theta)$. Ion Beam Analysis (IBA) techniques. JOUR NIMBE 268 3539
- 2010LA07 NUCLEAR REACTIONS $^4\text{He}(^8\text{Li}, n)^{11}\text{B}$, $E=2\text{-}4$ MeV; measured reaction products, time, E_n , I_n ; deduced σ . JOUR JPGPE 37 105105

A=12

- ^{12}Be 2010KA24 NUCLEAR REACTIONS $^2\text{H}(^{11}\text{Be}, ^{12}\text{Be})$, $E=5$ MeV / nucleon; measured E_p , $I_p(\theta)$, (particle)p-coin; deduced $\sigma(\theta)$ to isolated states, spectroscopic factor. ^{12}Be ; deduced levels, J , π . $^{12}\text{C}(^{24}\text{O}, ^{23}\text{O})$, $E=920$ MeV / nucleon; measured momentum distribution, spectroscopic factor. Comparison with systematics. Secondary radioactive beams. JOUR NUPAB 834 505c
- ^{12}C 2009FRZV NUCLEAR REACTIONS $^{12}\text{C}(p, p')$, $E=66$ MeV; measured E_p , $I_p(\theta)$; deduced $\sigma(E, \theta)$. $^9\text{Be}(^{16}\text{O}, ^{14}\text{O})$, $E=234$ MeV; measured $E(\text{particle})$, $I(\text{particle}, \theta)$; deduced $\sigma(E)$, neutron decay widths. CONF Dub(Nucl Struct and Dynamics,09) Proc,P13
- 2009GAZU NUCLEAR REACTIONS $^{16}\text{O}(\gamma, \alpha)$, $E=9.51, 9.61, 9.72$ MeV; measured $E\alpha$, $I\alpha(\theta)$, $E(\text{particle})$, $I(\text{particle})$. REPT TUNL-XLVIII,P97,Gai
- 2009PIZW NUCLEAR REACTIONS $^{12}\text{C}(^{134}\text{Xe}, ^{134}\text{Xe}')$, $E=435$ MeV; $^{12}\text{C}(^{136}\text{Ba}, ^{136}\text{Ba}')$, $^{12}\text{C}(^{138}\text{Ce}, ^{138}\text{Ce}')$, E not given; measured Coulomb excitation $E\gamma$, $I\gamma$; deduced low-lying levels, J , π , $B(M1)$; calculated low-lying levels, J , π , $B(M1)$ using IBM with mixed-symmetry states. CONF Dub(Nucl Struct and Dynamics,09) Proc,P225
- 2010C009 NUCLEAR REACTIONS $^{12}\text{C}(^{130}\text{Xe}, ^{130}\text{Xe}')$, $E=409$ MeV; $^{12}\text{C}(^{132}\text{Xe}, ^{132}\text{Xe}')$, $E=414$ MeV; measured $E\gamma$, $I\gamma$, and σ using Gammasphere array. ^{130}Xe , ^{132}Xe ; deduced J , π , $B(E2)$, $B(M1)$, and one-phonon mixed symmetry $2+$ states. Projectile Coulomb excitation. Systematics of level energies and $B(M1)$ strengths of one-phonon mixed symmetry states in even-even $^{124}\text{-}^{134}\text{Xe}$ nuclei. JOUR PRVCA 82 024317
- 2010DE32 NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, ^{12}\text{C})$, $E=240$ MeV; $^{12}\text{C}(^{13}\text{C}, ^{13}\text{C})$, $E=250$ MeV; measured $\sigma(\theta)$; calculated $\sigma(\theta)$ using different optical potentials; analyzed Airy minima. JOUR NUPAB 834 473c
- 2010FR03 NUCLEAR REACTIONS $^{12}\text{C}(p, p')$, $E=66$ MeV; measured E_p , $I_p(\theta=10^\circ, 16^\circ, 28^\circ)$. $^9\text{Be}(^{16}\text{O}, ^{14}\text{O})$, $E=234$ MeV; measured $E(\text{particle})$, $I(\text{particle})$. ^{11}Be ; deduced levels, J , π . ^{11}Be , ^{12}C calculated levels, J , π , rotational and vibrational bands assuming $2\alpha+3n$ for ^{11}Be and 3α for ^{12}C . JOUR NUPAB 834 621c
- 2010MU05 NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, 3\alpha)^{12}\text{C}$, $E=101.5$ MeV; measured reaction products, $E\alpha$, $I\alpha$; deduced excitation energy spectrum, J , π , no evidence of 2^+ state. JOUR JPGPE 37 105104

KEYNUMBERS AND KEYWORDS

A=13

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| ^{13}B | 2010MA44 | RADIOACTIVITY $^{28}\text{P}(\beta^+)$; measured μ ; deduced spin components. $^{13}\text{B}(\beta^-)$; measured $E\beta$, $I\beta(\theta)$ from aligned ^{13}B ; deduced alignment correlation coefficient, G-parity tensor coupling constant. Discussed ^9C - ^9Li mirror pair μ and spin expectation value. JOUR NUPAB 834 424c |
| ^{13}C | 2010KA24 | NUCLEAR REACTIONS $^2\text{H}(^{11}\text{Be}, ^{12}\text{Be})$, $E=5$ MeV / nucleon; measured E_p , $I_p(\theta)$, (particle)p-coin; deduced $\sigma(\theta)$ to isolated states, spectroscopic factor. ^{12}Be ; deduced levels, J , π . $^{12}\text{C}(^{24}\text{O}, ^{23}\text{O})$, $E=920$ MeV / nucleon; measured momentum distribution, spectroscopic factor. Comparison with systematics. Secondary radioactive beams. JOUR NUPAB 834 505c |
| | 2010MA44 | RADIOACTIVITY $^{28}\text{P}(\beta^+)$; measured μ ; deduced spin components. $^{13}\text{B}(\beta^-)$; measured $E\beta$, $I\beta(\theta)$ from aligned ^{13}B ; deduced alignment correlation coefficient, G-parity tensor coupling constant. Discussed ^9C - ^9Li mirror pair μ and spin expectation value. JOUR NUPAB 834 424c |
| ^{13}N | 2010LI38 | NUCLEAR REACTIONS $^2\text{H}(^6\text{He}, ^7\text{Li})$, E not given; $^{12}\text{C}(^7\text{Li}, ^6\text{He})$, $E=44.0$ MeV; measured $\sigma(\theta)$; deduced $^{12}\text{C}(p, \gamma)$ S-factor; calculated S-factor using DWBA and asymptotic normalization coefficient. Comparison with other data. JOUR NUPAB 834 661c |

A=14

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| ^{14}C | 2009FRZW | NUCLEAR REACTIONS $^{11}\text{B}(\alpha, \alpha)$, $E=1.5-8$ MeV; measured $E\alpha$, $I\alpha(\theta)$. $^{11}\text{B}(\alpha, p)$, $E=4-7$ MeV; measured E_p , $I_p(\theta)$. Results to be analyzed. REPT TUNL-XLVIII,P65,France |
| ^{14}N | 2010SE11 | NUCLEAR REACTIONS $^2\text{H}(^{17}\text{O}, \alpha^{14}\text{N})$, $E=41$ MeV; measured σ , $\sigma(\theta)$. $^{17}\text{O}(p, \alpha)$, $E=0-0.7$ MeV; deduced $\sigma(\theta)$. ^{18}F ; deduced levels using Trojan Horse Method. JOUR NUPAB 834 676c |
| | 2010SE13 | NUCLEAR REACTIONS $^2\text{H}(^{17}\text{O}, \alpha^{14}\text{N})$, $E=41$ MeV; measured ^{14}N spectrum, $\sigma(\theta)$, momentum distribution and differential σ for resonances above the ^{18}F proton threshold. ^{18}F ; deduced resonances and levels. Comparison of experimental momentum distribution with plane-wave impulse approximation (PWIA) and distorted-wave Born approximation (DWBA) calculations. $^{17}\text{O}(p, \alpha)^{14}\text{N}$; deduced reaction rates of astrophysical relevance. JOUR PRVCA 82 032801 |
| | 2011GU01 | NUCLEAR REACTIONS $^{14}\text{N}(\alpha, \alpha)$, $E=2.5-4$ MeV; measured $E\alpha$, $I\alpha$; deduced $\sigma(\theta)$, resonance parameters. JOUR NIMBE 269 40 |

A=15

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| ^{15}O | 2009XUZZ | RADIOACTIVITY $^{17}\text{Ne}(2p)$ [from $^9\text{Be}(^{20}\text{Ne}, X)$], $^{29}\text{S}(2p)$ [from $^9\text{Be}(^{32}\text{S}, X)$]; measured E_p , I_p , pp-coin, $E(\text{particle})$, $I(\text{particle})$, (particle)p-coin. CONF Dub(Nucl Struct and Dynamics,09) Proc,P106 |
| | 2010LI33 | RADIOACTIVITY $^{17,18}\text{Ne}$, $^{29}\text{S}(2p)$; deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c |

KEYNUMBERS AND KEYWORDS

A=16

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| ^{16}O | 2010LI33 | RADIOACTIVITY $^{17,18}\text{Ne}$, $^{29}\text{S}(2p)$; deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c |
| | 2010RA14 | RADIOACTIVITY $^{18}\text{Ne}(p)$, $(2p)$ [from $^9\text{Be}(^{20}\text{Ne}, 2n)$, $E=45$ MeV / nucleon]; measured excitation energy and momentum spectra; deduced decay mechanism features. JOUR NUPAB 834 464c |
| ^{16}Ne | 2010EL05 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, X)^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305 |

A=17

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| ^{17}F | 2010HE17 | NUCLEAR REACTIONS $^1\text{H}(^{17}\text{F}, p)$, $E=44.2$ MeV; measured thick target E_p , $I_p(\theta)$, E_γ , I_γ , $p\gamma$ -coin. ^{18}Ne deduced resonance parameters using R-matrix fit. JOUR NUPAB 834 670c |
| | 2010RA14 | RADIOACTIVITY $^{18}\text{Ne}(p)$, $(2p)$ [from $^9\text{Be}(^{20}\text{Ne}, 2n)$, $E=45$ MeV / nucleon]; measured excitation energy and momentum spectra; deduced decay mechanism features. JOUR NUPAB 834 464c |
| ^{17}Ne | 2009XUZZ | RADIOACTIVITY $^{17}\text{Ne}(2p)$ [from $^9\text{Be}(^{20}\text{Ne}, X)$], $^{29}\text{S}(2p)$ [from $^9\text{Be}(^{32}\text{S}, X)$]; measured E_p , I_p , pp -coin, $E(\text{particle})$, $I(\text{particle})$, $(\text{particle})p$ -coin. CONF Dub(Nucl Struct and Dynamics,09) Proc,P106 |
| | 2010EL05 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, X)^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305 |
| | 2010LI33 | RADIOACTIVITY $^{17,18}\text{Ne}$, $^{29}\text{S}(2p)$; deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c |

A=18

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| ^{18}O | 2009VOZX | NUCLEAR REACTIONS $^{12,14}\text{C}(^7\text{Li}, p)$, $E=44$ MeV; measured E_p , $I_p(\theta)$. $^{18,20}\text{O}$ deduced rotational, cluster, molecular bands. CONF Dub(Nucl Struct and Dynamics,09) Proc,P19 |
| ^{18}F | 2009NEZZ | NUCLEAR REACTIONS $^{17}\text{O}(p, \gamma)$, $E=275-500$ keV; measured E_γ , I_γ . Results still to be analyzed. REPT TUNL-XLVIII,P44,Newton |
| | 2010SE11 | NUCLEAR REACTIONS $^2\text{H}(^{17}\text{O}, \alpha^{14}\text{N})$, $E=41$ MeV; measured σ , $\sigma(\theta)$. $^{17}\text{O}(p, \alpha)$, $E=0-0.7$ MeV; deduced $\sigma(\theta)$. ^{18}F ; deduced levels using Trojan Horse Method. JOUR NUPAB 834 676c |
| | 2010SE13 | NUCLEAR REACTIONS $^2\text{H}(^{17}\text{O}, \alpha^{14}\text{N})$, $E=41$ MeV; measured ^{14}N spectrum, $\sigma(\theta)$, momentum distribution and differential σ for resonances above the ^{18}F proton threshold. ^{18}F ; deduced resonances and levels. Comparison of experimental momentum distribution with plane-wave impulse approximation (PWIA) and distorted-wave Born approximation (DWBA) calculations. $^{17}\text{O}(p, \alpha)^{14}\text{N}$; deduced reaction rates of astrophysical relevance. JOUR PRVCA 82 032801 |
| ^{18}Ne | 2010EL05 | NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, X)^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305 |

KEYNUMBERS AND KEYWORDS

A=18 (continued)

- 2010HE17 NUCLEAR REACTIONS $^1\text{H}(^{17}\text{F}, \text{p})$, $E=44.2$ MeV; measured thick target E_{p} , $I_{\text{p}}(\theta)$, E_{γ} , I_{γ} , $\text{p}\gamma$ -coin. ^{18}Ne deduced resonance parameters using R-matrix fit. JOUR NUPAB 834 670c
- 2010LI33 RADIOACTIVITY $^{17,18}\text{Ne}$, $^{29}\text{S}(2\text{p})$; deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c
- 2010RA14 NUCLEAR REACTIONS $\text{Pb}(^{18}\text{Ne}, ^{18}\text{Ne}')$, E not given; measured Coulomb excitation E_{p} , $I_{\text{p}}(\theta)$, pp -coin, $A(\text{particle})$, $Z(\text{particle})$, excitation energy spectrum. ^{18}Ne ; deduced levels, J , π , 2-proton decay mode. Comparison with Monte Carlo calculations. Secondary radioactive beams and kinematically complete experiment. JOUR NUPAB 834 464c
- 2010RA14 RADIOACTIVITY $^{18}\text{Ne}(\text{p})$, (2p) [from $^9\text{Be}(^{20}\text{Ne}, 2\text{n})$, $E=45$ MeV / nucleon]; measured excitation energy and momentum spectra; deduced decay mechanism features. JOUR NUPAB 834 464c
- 2010TA17 NUCLEAR REACTIONS ^{16}O , $^{28}\text{Si}(^3\text{He}, \text{n})$, $E=15$ MeV; measured ToF neutron $\sigma(E)$. ^{18}Ne , ^{30}S ; deduced energies of levels. JOUR NUPAB 834 679c

A=19

- ^{19}N 2010EL05 NUCLEAR REACTIONS $^1\text{H}(^{21}\text{N}, ^{21}\text{N}')$, $(^{21}\text{N}, \text{X})$, $E=52.0$ MeV; $^{208}\text{Pb}(^{21}\text{N}, ^{21}\text{N}')$, $(^{21}\text{N}, \text{X})$, $E=48.1$ MeV, [secondary ^{21}N beam from $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})$, $E=63$ MeV / nucleon primary reaction]; measured particle spectra, E_{γ} , I_{γ} , $\gamma\gamma$ -coin, cross sections. $^{19,21}\text{N}$; deduced levels, $B(E2)$. GEANT4 simulation of γ -ray spectra. JOUR PRVCA 82 027305
- 2010EL05 NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305
- ^{19}O 2010BE23 NUCLEAR REACTIONS $^2\text{H}(^{20}\text{O}, ^{19}\text{O})$, $E=11$ MeV / nucleon; measured E_{γ} , I_{γ} , $E(\text{particle})$, $I(\text{particle})$, $(\text{particle})\gamma$ -coin. ^{19}O deduced low-lying levels, J , π , spectroscopic factor. $^1\text{H}(^{14}\text{O}, ^{12}\text{O})$, $E=51$ MeV / nucleon; measured $E(\text{particle})$, $I(\text{particle})$, excitation energy spectra, $\sigma(\theta)$; deduced levels, J , π ; calculated $\sigma(\theta)$ using DWBA. MUST2, TIARA and EXOGAM detector arrays and VAMOS spectrometer. Secondary radioactive beams. JOUR NUPAB 834 446c
- ^{19}Ne 2010EL05 NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305

A=20

- ^{20}C 2009A0ZZ NUCLEAR REACTIONS $^9\text{Be}(^{48}\text{Ca}, \text{X})$, $E=345$ MeV / nucleon. $^{20,22}\text{C}$, $^{29,30,31,32}\text{Ne}$, $^{40,42}\text{Si}$ measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

KEYNUMBERS AND KEYWORDS

A=20 (continued)

^{20}O	2009VOZX	NUCLEAR REACTIONS $^{12,14}\text{C}(^7\text{Li}, \text{p})$, E=44 MeV; measured E_p , $I_p(\theta)$. $^{18,20}\text{O}$ deduced rotational, cluster, molecular bands. CONF Dub(Nucl Struct and Dynamics,09) Proc,P19
^{20}Ne	2010C012	NUCLEAR REACTIONS $^{16}\text{O}(\alpha, \gamma)$, E=2.5 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin, E_α , I_α . ^{20}Ne ; deduced levels, J, π , resonances, width, yields, branching ratios, S factors, reaction rates. R-matrix analysis. JOUR PRVCA 82 035802
	2010EL05	NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / \text{E}=63 \text{ MeV} / \text{nucleon}$; measured yields. JOUR PRVCA 82 027305
^{20}Na	2010WR02	NUCLEAR REACTIONS ^{20}Ne , ^{24}Mg , ^{28}Si , ^{32}S , $^{36}\text{Ar}(^3\text{He}, \text{t})$, E=32 MeV; measured $E(\text{t})$, $I(\text{t})$; deduced levels and resonances. ^{19}Ne , ^{23}Mg , ^{27}Si , ^{31}S , $^{35}\text{Ar}(\text{p}, \gamma)$; deduced improved thermonuclear reaction rates. ^{36}Cl , ^{36}Ar , ^{36}K ; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805

A=21

^{21}N	2010EL05	NUCLEAR REACTIONS $^1\text{H}(^{21}\text{N}, ^{21}\text{N}')$, ($^{21}\text{N}, \text{X}$), E=52.0 MeV; $^{208}\text{Pb}(^{21}\text{N}, ^{21}\text{N}')$, ($^{21}\text{N}, \text{X}$), E=48.1 MeV, [secondary ^{21}N beam from $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})$, E=63 MeV / nucleon primary reaction]; measured particle spectra, E_γ , I_γ , $\gamma\gamma$ -coin, cross sections. $^{19,21}\text{N}$; deduced levels, B(E2). GEANT4 simulation of γ -ray spectra. JOUR PRVCA 82 027305
	2010EL05	NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / \text{E}=63 \text{ MeV} / \text{nucleon}$; measured yields. JOUR PRVCA 82 027305
^{21}O	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured Z(particle), A(particle) using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{21}F	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured Z(particle), A(particle) using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{21}Ne	2010EL05	NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / \text{E}=63 \text{ MeV} / \text{nucleon}$; measured yields. JOUR PRVCA 82 027305
	2010FR04	NUCLEAR REACTIONS $^{12}\text{C}(^{13}\text{C}, \alpha)^{21}\text{Ne}$, E=20 MeV; measured reaction products, E_α , I_α ; ^{21}Ne deduced excitation energy spectrum, J, π , strengths, neutron decay mode. Comparison with compilations. JOUR JPGPE 37 125102

KEYNUMBERS AND KEYWORDS

A=22

^{22}C	2009A0ZZ	NUCLEAR REACTIONS $^9\text{Be}(^{48}\text{Ca}, \text{X})$, $E=345$ MeV / nucleon. $^{20,22}\text{C}$, $^{29,30,31,32}\text{Ne}$, $^{40,42}\text{Si}$ measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76
^{22}O	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured $Z(\text{particle})$, $A(\text{particle})$ using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{22}F	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured $Z(\text{particle})$, $A(\text{particle})$ using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{22}Ne	2010EL05	NUCLEAR REACTIONS $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{16}\text{Ne} / ^{17}\text{Ne} / ^{18}\text{Ne} / ^{19}\text{Ne} / ^{20}\text{Ne} / ^{21}\text{Ne} / ^{22}\text{Ne} / E=63$ MeV / nucleon; measured yields. JOUR PRVCA 82 027305
^{22}Na	2010CH46	NUCLEAR REACTIONS $^{24}\text{Mg}(\text{p}, ^3\text{He})$, $E=41, 41.5$ MeV; measured $E(^3\text{He})$, $I(^3\text{He})$, $\sigma(\theta)$, differential σ ^{22}Na ; deduced levels, J , π , l -transfers. Distorted-wave Born approximation (DWBA) analysis of $s(\theta)$ data. JOUR PRVCA 82 047302
	2011TA02	NUCLEAR REACTIONS $^{27}\text{Al}(\text{d}, \text{X})^{22}\text{Na} / ^{24}\text{Na}$, $\text{Ti}(\text{d}, \text{X})^{48}\text{V}$, $\text{In}(\text{d}, \text{X})^{113}\text{Sn} / ^{111}\text{In} / ^{113}\text{In} / ^{114}\text{In} / ^{115}\text{In} / ^{116}\text{In} / ^{111}\text{Cd} / ^{115}\text{Cd}$, $E < 40$ MeV; measured $E\gamma$, $I\gamma$; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26

A=23

^{23}O	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured $Z(\text{particle})$, $A(\text{particle})$ using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{23}F	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured $Z(\text{particle})$, $A(\text{particle})$ using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel}, \text{p})$; calculated $\sigma(\text{parallel}, \text{p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{23}Mg	2010SA26	NUCLEAR REACTIONS $^{22}\text{Na}(\text{p}, \gamma)$, E not given; measured $E\gamma$, $I\gamma$; deduced proton resonances energies and strengths, σ , reaction rates. JOUR PRLTA 105 152501

A=24

^{24}O	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured Z(particle), A(particle) using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel, p})$; calculated $\sigma(\text{parallel, p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{24}F	2009NOZY	RADIOACTIVITY $^{24}\text{O}(\beta^-)$, (n); measured Z(particle), A(particle) using in-flight fragment separator. ^{23}O deduced spectroscopic factors, $\sigma(\text{parallel, p})$; calculated $\sigma(\text{parallel, p})$ using eikonal model. $^{21,22,23,24}\text{O}(\beta^-)$; measured 1n removal σ , FWHM. Compared to other data. CONF Dub(Nucl Struct and Dynamics,09) Proc,P90
^{24}Ne	2010R023	NUCLEAR REACTIONS Be(^{14}C , ^{13}C), (^{15}C , ^{14}C), (^{16}C , ^{15}C), (^{17}C , ^{16}C), (^{18}C , ^{17}C), (^{19}C , ^{18}C), (^{16}N , ^{15}N), (^{17}N , ^{16}N), (^{18}N , ^{17}N), (^{19}N , ^{18}N), (^{20}N , ^{19}N), (^{21}N , ^{20}N), (^{22}N , ^{21}N), (^{19}O , ^{18}O), (^{20}O , ^{19}O), (^{21}O , ^{20}O), (^{22}O , ^{21}O), (^{23}O , ^{22}O), (^{21}F , ^{20}F), (^{22}F , ^{21}F), (^{23}F , ^{22}F), (^{24}F , ^{23}F), (^{25}F , ^{24}F), (^{26}F , ^{25}F), (^{24}Ne , ^{23}Ne), (^{25}Ne , ^{24}Ne), (^{26}Ne , ^{25}Ne), (^{27}Ne , ^{26}Ne), (^{28}Ne , ^{27}Ne), (^{27}Na , ^{26}Na), (^{28}Na , ^{27}Na), (^{29}Na , ^{28}Na), (^{30}Na , ^{29}Na), (^{31}Na , ^{30}Na), (^{31}Mg , ^{30}Mg), (^{32}Mg , ^{31}Mg), (^{33}Mg , ^{32}Mg), (^{34}Al , ^{33}Al), (^{35}Al , ^{34}Al), E<700 MeV / nucleon, [secondary beams from Be(^{40}Ar , X), E=700 MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ^{26}F ; possible anomalous structure. $^{24,25,26,27,28}\text{Ne}$; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305
^{24}Na	2011TA01	NUCLEAR REACTIONS $^{27}\text{Al}(\text{d}, \text{X})^{24}\text{Na}$, $^{100}\text{Mo}(\text{d}, \text{X})^{99}\text{Tc}$ / ^{99}Mo / ^{98}Nb / ^{97}Nb , E<50 MeV; measured $E\gamma$, $I\gamma$; deduced σ and their uncertainties. Comparison with with ALICE-D, EMPIRE-D and TALYS codes. JOUR ARISE 69 18
	2011TA02	NUCLEAR REACTIONS $^{27}\text{Al}(\text{d}, \text{X})^{22}\text{Na}$ / ^{24}Na , $\text{Ti}(\text{d}, \text{X})^{48}\text{V}$, $\text{In}(\text{d}, \text{X})^{113}\text{Sn}$ / ^{111}In / ^{113}In / ^{114}In / ^{115}In / ^{116}In / ^{111}Cd / ^{115}Cd , E<40 MeV; measured $E\gamma$, $I\gamma$; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26
^{24}Al	2009ICZX	RADIOACTIVITY $^{24}\text{Si}(\beta^+)$ [from Ni(^{28}Si , X), E=100 MeV / nucleon]; measured $E\beta$, $I\beta$, β -delayed $E\gamma$, $I\gamma$, E(particle); deduced B(GT) asymmetry; calculated B(GT). CONF Dub(Nucl Struct and Dynamics,09) Proc,P98
	2010WR02	NUCLEAR REACTIONS ^{20}Ne , ^{24}Mg , ^{28}Si , ^{32}S , $^{36}\text{Ar}(\text{}^3\text{He}, \text{t})$, E=32 MeV; measured E(t), I(t); deduced levels and resonances. ^{19}Ne , ^{23}Mg , ^{27}Si , ^{31}S , $^{35}\text{Ar}(\text{p}, \gamma)$; deduced improved thermonuclear reaction rates. ^{36}Cl , ^{36}Ar , ^{36}K ; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805
^{24}Si	2009ICZX	RADIOACTIVITY $^{24}\text{Si}(\beta^+)$ [from Ni(^{28}Si , X), E=100 MeV / nucleon]; measured $E\beta$, $I\beta$, β -delayed $E\gamma$, $I\gamma$, E(particle); deduced B(GT) asymmetry; calculated B(GT). CONF Dub(Nucl Struct and Dynamics,09) Proc,P98

A=25

- ²⁵Ne 2010R023 NUCLEAR REACTIONS Be(¹⁴C, ¹³C), (¹⁵C, ¹⁴C), (¹⁶C, ¹⁵C), (¹⁷C, ¹⁶C), (¹⁸C, ¹⁷C), (¹⁹C, ¹⁸C), (¹⁶N, ¹⁵N), (¹⁷N, ¹⁶N), (¹⁸N, ¹⁷N), (¹⁹N, ¹⁸N), (²⁰N, ¹⁹N), (²¹N, ²⁰N), (²²N, ²¹N), (¹⁹O, ¹⁸O), (²⁰O, ¹⁹O), (²¹O, ²⁰O), (²²O, ²¹O), (²³O, ²²O), (²¹F, ²⁰F), (²²F, ²¹F), (²³F, ²²F), (²⁴F, ²³F), (²⁵F, ²⁴F), (²⁶F, ²⁵F), (²⁴Ne, ²³Ne), (²⁵Ne, ²⁴Ne), (²⁶Ne, ²⁵Ne), (²⁷Ne, ²⁶Ne), (²⁸Ne, ²⁷Ne), (²⁷Na, ²⁶Na), (²⁸Na, ²⁷Na), (²⁹Na, ²⁸Na), (³⁰Na, ²⁹Na), (³¹Na, ³⁰Na), (³¹Mg, ³⁰Mg), (³²Mg, ³¹Mg), (³³Mg, ³²Mg), (³⁴Al, ³³Al), (³⁵Al, ³⁴Al), E<700 MeV / nucleon, [secondary beams from Be(⁴⁰Ar, X), E=700 MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ²⁶F; possible anomalous structure. ^{24,25,26,27,28}Ne; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305
- ²⁵Mg 2010ZH44 NUCLEAR REACTIONS Si(n, γ)²⁵Mg / ²⁶Mg / ²⁷Al / ²⁸Al / ²⁸Si / ²⁹Si / ³⁰Si, E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ²⁸Si(n, p), (n, n'), (n, α), (n, np), (n, d), ²⁹Si(n, n'), (n, α), ³⁰Si(n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602
- ²⁵Al 2010SZ04 NUCLEAR REACTIONS ²⁴Mg(p, γ), E=223 keV; measured E γ , I γ . ²⁵Al; deduced levels, J, π , branching ratios. JOUR ZAANE 44 513

A=26

- ²⁶F 2010R023 NUCLEAR REACTIONS Be(¹⁴C, ¹³C), (¹⁵C, ¹⁴C), (¹⁶C, ¹⁵C), (¹⁷C, ¹⁶C), (¹⁸C, ¹⁷C), (¹⁹C, ¹⁸C), (¹⁶N, ¹⁵N), (¹⁷N, ¹⁶N), (¹⁸N, ¹⁷N), (¹⁹N, ¹⁸N), (²⁰N, ¹⁹N), (²¹N, ²⁰N), (²²N, ²¹N), (¹⁹O, ¹⁸O), (²⁰O, ¹⁹O), (²¹O, ²⁰O), (²²O, ²¹O), (²³O, ²²O), (²¹F, ²⁰F), (²²F, ²¹F), (²³F, ²²F), (²⁴F, ²³F), (²⁵F, ²⁴F), (²⁶F, ²⁵F), (²⁴Ne, ²³Ne), (²⁵Ne, ²⁴Ne), (²⁶Ne, ²⁵Ne), (²⁷Ne, ²⁶Ne), (²⁸Ne, ²⁷Ne), (²⁷Na, ²⁶Na), (²⁸Na, ²⁷Na), (²⁹Na, ²⁸Na), (³⁰Na, ²⁹Na), (³¹Na, ³⁰Na), (³¹Mg, ³⁰Mg), (³²Mg, ³¹Mg), (³³Mg, ³²Mg), (³⁴Al, ³³Al), (³⁵Al, ³⁴Al), E<700 MeV / nucleon, [secondary beams from Be(⁴⁰Ar, X), E=700 MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ²⁶F; possible anomalous structure. ^{24,25,26,27,28}Ne; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305

A=26 (continued)

- ²⁶Ne 2010R023 NUCLEAR REACTIONS Be(¹⁴C, ¹³C), (¹⁵C, ¹⁴C), (¹⁶C, ¹⁵C), (¹⁷C, ¹⁶C), (¹⁸C, ¹⁷C), (¹⁹C, ¹⁸C), (¹⁶N, ¹⁵N), (¹⁷N, ¹⁶N), (¹⁸N, ¹⁷N), (¹⁹N, ¹⁸N), (²⁰N, ¹⁹N), (²¹N, ²⁰N), (²²N, ²¹N), (¹⁹O, ¹⁸O), (²⁰O, ¹⁹O), (²¹O, ²⁰O), (²²O, ²¹O), (²³O, ²²O), (²¹F, ²⁰F), (²²F, ²¹F), (²³F, ²²F), (²⁴F, ²³F), (²⁵F, ²⁴F), (²⁶F, ²⁵F), (²⁴Ne, ²³Ne), (²⁵Ne, ²⁴Ne), (²⁶Ne, ²⁵Ne), (²⁷Ne, ²⁶Ne), (²⁸Ne, ²⁷Ne), (²⁷Na, ²⁶Na), (²⁸Na, ²⁷Na), (²⁹Na, ²⁸Na), (³⁰Na, ²⁹Na), (³¹Na, ³⁰Na), (³¹Mg, ³⁰Mg), (³²Mg, ³¹Mg), (³³Mg, ³²Mg), (³⁴Al, ³³Al), (³⁵Al, ³⁴Al), E<700 MeV / nucleon, [secondary beams from Be(⁴⁰Ar, X), E=700 MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ²⁶F; possible anomalous structure. ^{24,25,26,27,28}Ne; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305
- ²⁶Mg 2009LOZY NUCLEAR REACTIONS ²⁶Mg(γ , γ'), E=10.8, 11.0, 11.2, 11.4 MeV; measured E γ , I γ (θ) using polarized γ ; deduced low-levels E, J, π . REPT TUNL-XLVIII,P103,Longland
- 2010DE29 NUCLEAR REACTIONS ²⁶Mg(γ , γ'), E=10.5-11.7 MeV; measured E γ , I γ ; deduced levels, J, π , resonances, branching ratios, total widths, partial widths. GEANT4 Monte-Carlo simulation of γ -ray spectra. Relevance to predictions of neutron production for the s-process in nucleosynthesis. JOUR PRVCA 82 025802
- 2010MA43 NUCLEAR REACTIONS ²⁸Si(p, t), E=98.7 MeV; measured triton spectra, σ , $\sigma(\theta)$. ²⁶Si; deduced levels, J, π , proton resonance energies, spectroscopic factors. DWBA analysis. Comparisons with previous measurements. ²⁶Si, ²⁶Mg; analyzed mirror states. ²⁵Al(p, γ)²⁶Si; deduced reaction rates from 0.01 to 10 GK, comparisons with previous data and statistical-model calculations. JOUR PRVCA 82 025807
- 2010ZH44 NUCLEAR REACTIONS Si(n, γ)²⁵Mg / ²⁶Mg / ²⁷Al / ²⁸Al / ²⁸Si / ²⁹Si / ³⁰Si, E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ²⁸Si(n, p), (n, n'), (n, α), (n, np), (n, d), ²⁹Si(n, n'), (n, α), ³⁰Si(n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602
- ²⁶Al 2010IA01 RADIOACTIVITY ²⁶Si(β^+)[from ¹H(²⁷Al, 2n), E=30 MeV / nucleon]; measured E β , I β using a 4 π proportional gas counter system, and half-life. Comparison with previous results. JOUR PRVCA 82 035502
- ²⁶Si 2010CH38 NUCLEAR REACTIONS ¹H(²⁵Al, ²⁵Al), E \approx 3.4 MeV / nucleon; measured $\sigma(\theta)$. ¹H(²⁷Si, ²⁶Si), E=89 MeV / nucleon; measured E γ , I γ , E(particle), I(particle), (particle) γ -coin. ²⁶Si deduced levels, J, π , resonance parameters using R-matrix fit. JOUR NUPAB 834 667c
- 2010CH44 NUCLEAR REACTIONS ²⁸Si(p, t), E=40 MeV; measured Et, It, Ep, Ip, tp-coin, $\sigma(\theta)$. ²⁶Si; deduced levels, J, π , resonances, l-transfers, and proton decay branching ratios. DWBA analysis. Astrophysical relevance to the reaction rates for ²⁵Al(p, γ). JOUR PRVCA 82 045803
- 2010IA01 RADIOACTIVITY ²⁶Si(β^+)[from ¹H(²⁷Al, 2n), E=30 MeV / nucleon]; measured E β , I β using a 4 π proportional gas counter system, and half-life. Comparison with previous results. JOUR PRVCA 82 035502

A=26 (continued)

2010MA43 NUCLEAR REACTIONS $^{28}\text{Si}(p, t)$, $E=98.7$ MeV; measured triton spectra, σ , $\sigma(\theta)$. ^{26}Si ; deduced levels, J , π , proton resonance energies, spectroscopic factors. DWBA analysis. Comparisons with previous measurements. ^{26}Si , ^{26}Mg ; analyzed mirror states. $^{25}\text{Al}(p, \gamma)^{26}\text{Si}$; deduced reaction rates from 0.01 to 10 GK, comparisons with previous data and statistical-model calculations. JOUR PRVCA 82 025807

A=27

^{27}Ne 2010R023 NUCLEAR REACTIONS $\text{Be}(^{14}\text{C}, ^{13}\text{C})$, $(^{15}\text{C}, ^{14}\text{C})$, $(^{16}\text{C}, ^{15}\text{C})$, $(^{17}\text{C}, ^{16}\text{C})$, $(^{18}\text{C}, ^{17}\text{C})$, $(^{19}\text{C}, ^{18}\text{C})$, $(^{16}\text{N}, ^{15}\text{N})$, $(^{17}\text{N}, ^{16}\text{N})$, $(^{18}\text{N}, ^{17}\text{N})$, $(^{19}\text{N}, ^{18}\text{N})$, $(^{20}\text{N}, ^{19}\text{N})$, $(^{21}\text{N}, ^{20}\text{N})$, $(^{22}\text{N}, ^{21}\text{N})$, $(^{19}\text{O}, ^{18}\text{O})$, $(^{20}\text{O}, ^{19}\text{O})$, $(^{21}\text{O}, ^{20}\text{O})$, $(^{22}\text{O}, ^{21}\text{O})$, $(^{23}\text{O}, ^{22}\text{O})$, $(^{21}\text{F}, ^{20}\text{F})$, $(^{22}\text{F}, ^{21}\text{F})$, $(^{23}\text{F}, ^{22}\text{F})$, $(^{24}\text{F}, ^{23}\text{F})$, $(^{25}\text{F}, ^{24}\text{F})$, $(^{26}\text{F}, ^{25}\text{F})$, $(^{24}\text{Ne}, ^{23}\text{Ne})$, $(^{25}\text{Ne}, ^{24}\text{Ne})$, $(^{26}\text{Ne}, ^{25}\text{Ne})$, $(^{27}\text{Ne}, ^{26}\text{Ne})$, $(^{28}\text{Ne}, ^{27}\text{Ne})$, $(^{27}\text{Na}, ^{26}\text{Na})$, $(^{28}\text{Na}, ^{27}\text{Na})$, $(^{29}\text{Na}, ^{28}\text{Na})$, $(^{30}\text{Na}, ^{29}\text{Na})$, $(^{31}\text{Na}, ^{30}\text{Na})$, $(^{31}\text{Mg}, ^{30}\text{Mg})$, $(^{32}\text{Mg}, ^{31}\text{Mg})$, $(^{33}\text{Mg}, ^{32}\text{Mg})$, $(^{34}\text{Al}, ^{33}\text{Al})$, $(^{35}\text{Al}, ^{34}\text{Al})$, $E < 700$ MeV / nucleon, [secondary beams from $\text{Be}(^{40}\text{Ar}, X)$, $E=700$ MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ^{26}F ; possible anomalous structure. $^{24,25,26,27,28}\text{Ne}$; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305

^{27}Al 2010ZH44 NUCLEAR REACTIONS $\text{Si}(n, \gamma)^{25}\text{Mg} / ^{26}\text{Mg} / ^{27}\text{Al} / ^{28}\text{Al} / ^{28}\text{Si} / ^{29}\text{Si} / ^{30}\text{Si}$, $E=14.9$ MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . $^{28}\text{Si}(n, p)$, (n, n') , (n, α) , (n, np) , (n, d) , $^{29}\text{Si}(n, n')$, (n, α) , $^{30}\text{Si}(n, n')$, $E=14.9$ MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602

^{27}Si 2009XUZZ RADIOACTIVITY $^{17}\text{Ne}(2p)$ [from $^9\text{Be}(^{20}\text{Ne}, X)$], $^{29}\text{S}(2p)$ [from $^9\text{Be}(^{32}\text{S}, X)$]; measured E_p , I_p , pp-coin, $E(\text{particle})$, $I(\text{particle})$, (particle)p-coin. CONF Dub(Nucl Struct and Dynamics,09) Proc,P106

2010LI33 RADIOACTIVITY $^{17,18}\text{Ne}$, $^{29}\text{S}(2p)$; deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c

A=28

- ²⁸Ne 2010R023 NUCLEAR REACTIONS Be(¹⁴C, ¹³C), (¹⁵C, ¹⁴C), (¹⁶C, ¹⁵C), (¹⁷C, ¹⁶C), (¹⁸C, ¹⁷C), (¹⁹C, ¹⁸C), (¹⁶N, ¹⁵N), (¹⁷N, ¹⁶N), (¹⁸N, ¹⁷N), (¹⁹N, ¹⁸N), (²⁰N, ¹⁹N), (²¹N, ²⁰N), (²²N, ²¹N), (¹⁹O, ¹⁸O), (²⁰O, ¹⁹O), (²¹O, ²⁰O), (²²O, ²¹O), (²³O, ²²O), (²¹F, ²⁰F), (²²F, ²¹F), (²³F, ²²F), (²⁴F, ²³F), (²⁵F, ²⁴F), (²⁶F, ²⁵F), (²⁴Ne, ²³Ne), (²⁵Ne, ²⁴Ne), (²⁶Ne, ²⁵Ne), (²⁷Ne, ²⁶Ne), (²⁸Ne, ²⁷Ne), (²⁷Na, ²⁶Na), (²⁸Na, ²⁷Na), (²⁹Na, ²⁸Na), (³⁰Na, ²⁹Na), (³¹Na, ³⁰Na), (³¹Mg, ³⁰Mg), (³²Mg, ³¹Mg), (³³Mg, ³²Mg), (³⁴Al, ³³Al), (³⁵Al, ³⁴Al), E<700 MeV / nucleon, [secondary beams from Be(⁴⁰Ar, X), E=700 MeV / nucleon primary reaction]; measured fragment longitudinal-momentum distributions, σ , widths. One-neutron knockout reactions. ²⁶F; possible anomalous structure. ^{24,25,26,27,28}Ne; discussed ground state configurations and relevance to nuclei near the island of inversion. JOUR PRVCA 82 024305
- ²⁸Al 2010ZH44 NUCLEAR REACTIONS Si(n, γ)²⁵Mg / ²⁶Mg / ²⁷Al / ²⁸Al / ²⁸Si / ²⁹Si / ³⁰Si, E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ²⁸Si(n, p), (n, n'), (n, α), (n, np), (n, d), ²⁹Si(n, n'), (n, α), ³⁰Si(n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602
- ²⁸Si 2010MA44 RADIOACTIVITY ²⁸P(β^+); measured μ ; deduced spin components. ¹³B(β^-); measured E β , I $\beta(\theta)$ from aligned ¹³B; deduced alignment correlation coefficient, G-parity tensor coupling constant. Discussed ⁹C-⁹Li mirror pair μ and spin expectation value. JOUR NUPAB 834 424c
- 2010ZE05 NUCLEAR REACTIONS ²⁸Si(⁷Li, ⁷Li), E=5-12 MeV; measured quasielastic $\sigma(E, \theta)$; deduced barrier distributions for elastic and quasielastic channels using optical model and double-folded potentials. Comparison with previous data for ²⁸Si(⁶Li, ⁶Li), E=5-35 MeV. Continuum-discretized coupled-channel (CDCC) and coupled reaction channel (CRC) calculations for effect of breakup and transfer reactions. JOUR PRVCA 82 044607
- 2010ZH44 NUCLEAR REACTIONS Si(n, γ)²⁵Mg / ²⁶Mg / ²⁷Al / ²⁸Al / ²⁸Si / ²⁹Si / ³⁰Si, E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ²⁸Si(n, p), (n, n'), (n, α), (n, np), (n, d), ²⁹Si(n, n'), (n, α), ³⁰Si(n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602
- ²⁸P 2010MA44 RADIOACTIVITY ²⁸P(β^+); measured μ ; deduced spin components. ¹³B(β^-); measured E β , I $\beta(\theta)$ from aligned ¹³B; deduced alignment correlation coefficient, G-parity tensor coupling constant. Discussed ⁹C-⁹Li mirror pair μ and spin expectation value. JOUR NUPAB 834 424c

KEYNUMBERS AND KEYWORDS

A=28 (continued)

2010WR02 NUCLEAR REACTIONS ^{20}Ne , ^{24}Mg , ^{28}Si , ^{32}S , ^{36}Ar (^3He , t), E=32 MeV; measured E(t), I(t); deduced levels and resonances. ^{19}Ne , ^{23}Mg , ^{27}Si , ^{31}S , ^{35}Ar (p, γ); deduced improved thermonuclear reaction rates. ^{36}Cl , ^{36}Ar , ^{36}K ; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805

A=29

^{29}Ne 2009A0ZZ NUCLEAR REACTIONS ^9Be (^{48}Ca , X), E=345 MeV / nucleon. $^{20,22}\text{C}$, $^{29,30,31,32}\text{Ne}$, $^{40,42}\text{Si}$ measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

^{29}Si 2010ZH44 NUCLEAR REACTIONS Si(n, γ) ^{25}Mg / ^{26}Mg / ^{27}Al / ^{28}Al / ^{28}Si / ^{29}Si / ^{30}Si , E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ^{28}Si (n, p), (n, n'), (n, α), (n, np), (n, d), ^{29}Si (n, n'), (n, α), ^{30}Si (n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602

^{29}S 2009XUZZ RADIOACTIVITY ^{17}Ne (2p)[from ^9Be (^{20}Ne , X)], ^{29}S (2p)[from ^9Be (^{32}S , X)]; measured Ep, Ip, pp-coin, E(particle), I(particle), (particle)p-coin. CONF Dub(Nucl Struct and Dynamics,09) Proc,P106

 2010LI33 RADIOACTIVITY $^{17,18}\text{Ne}$, ^{29}S (2p); deduced possible 2p-decay or ^2He -decay branching ratios. JOUR NUPAB 834 450c

A=30

^{30}Ne 2009A0ZZ NUCLEAR REACTIONS ^9Be (^{48}Ca , X), E=345 MeV / nucleon. $^{20,22}\text{C}$, $^{29,30,31,32}\text{Ne}$, $^{40,42}\text{Si}$ measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

^{30}Mg 2008DEZM NUCLEAR REACTIONS ^{14}C (^{18}O , 2p), E=37 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, E(particle), I(particle), A(particle), Z(particle), (particle) γ -coin; deduced levels, J, π , yrast; calculated levels, J, π using USD interaction. Results on CD only. CONF E.Lansing (NS2008),P94,Deacon

^{30}Si 2010ZH44 NUCLEAR REACTIONS Si(n, γ) ^{25}Mg / ^{26}Mg / ^{27}Al / ^{28}Al / ^{28}Si / ^{29}Si / ^{30}Si , E=14.9 MeV; measured E γ , I γ , $\gamma(\theta)$; deduced σ , $\sigma(\theta)$, total γ radiation yield. Prompt and delayed γ . ^{28}Si (n, p), (n, n'), (n, α), (n, np), (n, d), ^{29}Si (n, n'), (n, α), ^{30}Si (n, n'), E=14.9 MeV; deduced differential and integral isotopic cross sections. Comparisons with other experimental data and with evaluated results. JOUR PRVCA 82 047602

^{30}S 2010TA17 NUCLEAR REACTIONS ^{16}O , ^{28}Si (^3He , n), E=15 MeV; measured ToF neutron $\sigma(E)$. ^{18}Ne , ^{30}S ; deduced energies of levels. JOUR NUPAB 834 679c

KEYNUMBERS AND KEYWORDS

A=31

³¹Ne 2009A0ZZ NUCLEAR REACTIONS ⁹Be(⁴⁸Ca, X), E=345 MeV / nucleon.
^{20,22}C, ^{29,30,31,32}Ne, ^{40,42}Si measured yields. Comparison with EPAX2
calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

A=32

³²Ne 2009A0ZZ NUCLEAR REACTIONS ⁹Be(⁴⁸Ca, X), E=345 MeV / nucleon.
^{20,22}C, ^{29,30,31,32}Ne, ^{40,42}Si measured yields. Comparison with EPAX2
calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

2009DOZX NUCLEAR REACTIONS ⁹Be(⁴⁸Ca, X), E=345 MeV / nucleon;
measured A(particle), Z(particle), E_γ, I_γ, (particle)γ-coin. C(³²Ne, X),
E=226 MeV / nucleon; C(³³Ne, X), E=245 MeV / nucleon; measured
E_γ, I_γ(θ). ³²Ne deduced E(2₁⁺). Comparison with data on other Ne
isotopes and Utsuno calculations. CONF Dub(Nucl Struct and
Dynamics,09) Proc,P82

³²Mg 2010WI11 NUCLEAR REACTIONS ³H(³⁰Mg, p), E=1.8 MeV / nucleon;
measured recoil proton spectrum, E_γ, I_γ, pγ-coin. ³²Mg; deduced
excitation energies, σ(θ), shape coexistence. Comparison with Monte
Carlo shell-model calculations. JOUR PRLTA 105 252501

³²P 2008CHZK NUCLEAR REACTIONS ¹⁸O(¹⁸O, X), E=34 MeV; measured E_γ, I_γ,
γγ-coin, E(particle), A(particle), Z(particle), I(particle), polarization.
^{32,33,34}P, ³³S deduced levels, J, π; calculated levels, J, π, B(E2) using
spherical shell model. Results on CD only. CONF E.Lansing
(NS2008),P87,Chakrabarti

³²Cl 2010WR02 NUCLEAR REACTIONS ²⁰Ne, ²⁴Mg, ²⁸Si, ³²S, ³⁶Ar(³He, t), E=32
MeV; measured E(t), I(t); deduced levels and resonances. ¹⁹Ne, ²³Mg,
²⁷Si, ³¹S, ³⁵Ar(p, γ); deduced improved thermonuclear reaction rates.
³⁶Cl, ³⁶Ar, ³⁶K; analyzed A=36, T=1 triplet states. Comparison with
previous experiments. JOUR PRVCA 82 035805

A=33

³³P 2008CHZK NUCLEAR REACTIONS ¹⁸O(¹⁸O, X), E=34 MeV; measured E_γ, I_γ,
γγ-coin, E(particle), A(particle), Z(particle), I(particle), polarization.
^{32,33,34}P, ³³S deduced levels, J, π; calculated levels, J, π, B(E2) using
spherical shell model. Results on CD only. CONF E.Lansing
(NS2008),P87,Chakrabarti

³³S 2008CHZK NUCLEAR REACTIONS ¹⁸O(¹⁸O, X), E=34 MeV; measured E_γ, I_γ,
γγ-coin, E(particle), A(particle), Z(particle), I(particle), polarization.
^{32,33,34}P, ³³S deduced levels, J, π; calculated levels, J, π, B(E2) using
spherical shell model. Results on CD only. CONF E.Lansing
(NS2008),P87,Chakrabarti

KEYNUMBERS AND KEYWORDS

A=34

- ³⁴P 2008CHZK NUCLEAR REACTIONS ¹⁸O(¹⁸O, X), E=34 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, E(particle), A(particle), Z(particle), I(particle), polarization. ^{32,33,34}P, ³³S deduced levels, J, π ; calculated levels, J, π , B(E2) using spherical shell model. Results on CD only. CONF E.Lansing (NS2008),P87,Chakrabarti
- ³⁴Cl 2011EN01 NUCLEAR REACTIONS ³⁶Ar, Ar(d, α)³⁴Cl / ³⁸Cl, E=8.4 MeV; measured reaction products, E γ , I γ ; deduced thick target yields. JOUR ARISE 69 75

A=35

No references found

A=36

- ³⁶Cl 2010WR02 NUCLEAR REACTIONS ²⁰Ne, ²⁴Mg, ²⁸Si, ³²S, ³⁶Ar(³He, t), E=32 MeV; measured E(t), I(t); deduced levels and resonances. ¹⁹Ne, ²³Mg, ²⁷Si, ³¹S, ³⁵Ar(p, γ); deduced improved thermonuclear reaction rates. ³⁶Cl, ³⁶Ar, ³⁶K; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805
- ³⁶Ar 2010SC21 NUCLEAR REACTIONS ⁴⁰Ca(⁴⁰Ca, α), E=50 MeV / nucleon; measured E α , I α , σ , $\sigma(\theta)$. ³⁶Ar; deduced missing energy spectrum, levels, J, π . Comparison of $\sigma(\theta)$ with calculations using time-dependent Schroedinger equation (TDSE). JOUR PRVCA 82 031301
- 2010WR02 NUCLEAR REACTIONS ²⁰Ne, ²⁴Mg, ²⁸Si, ³²S, ³⁶Ar(³He, t), E=32 MeV; measured E(t), I(t); deduced levels and resonances. ¹⁹Ne, ²³Mg, ²⁷Si, ³¹S, ³⁵Ar(p, γ); deduced improved thermonuclear reaction rates. ³⁶Cl, ³⁶Ar, ³⁶K; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805
- ³⁶K 2010WR02 NUCLEAR REACTIONS ²⁰Ne, ²⁴Mg, ²⁸Si, ³²S, ³⁶Ar(³He, t), E=32 MeV; measured E(t), I(t); deduced levels and resonances. ¹⁹Ne, ²³Mg, ²⁷Si, ³¹S, ³⁵Ar(p, γ); deduced improved thermonuclear reaction rates. ³⁶Cl, ³⁶Ar, ³⁶K; analyzed A=36, T=1 triplet states. Comparison with previous experiments. JOUR PRVCA 82 035805

A=37

No references found

A=38

- ³⁸Cl 2011EN01 NUCLEAR REACTIONS ³⁶Ar, Ar(d, α)³⁴Cl / ³⁸Cl, E=8.4 MeV; measured reaction products, E γ , I γ ; deduced thick target yields. JOUR ARISE 69 75

KEYNUMBERS AND KEYWORDS

A=38 (continued)

- ³⁸Ar 2010BA43 RADIOACTIVITY ^{38m}K(β^+)[³⁸K beam from Ca(p, X), E=500 MeV]; measured integral activity using a 4 π continuous gas flow proportional β counter, half-life; deduced Ft value for superallowed β transition. Comparison with previous half-life measurements. JOUR PRVCA 82 045501
- ³⁸K 2010BA43 RADIOACTIVITY ^{38m}K(β^+)[³⁸K beam from Ca(p, X), E=500 MeV]; measured integral activity using a 4 π continuous gas flow proportional β counter, half-life; deduced Ft value for superallowed β transition. Comparison with previous half-life measurements. JOUR PRVCA 82 045501
- 2010BL09 RADIOACTIVITY ³⁸Ca(β^+), ³⁹Ca(β^+)[from Ti(p, X), E=1.4 GeV]; measured CaF molecule ToF, E β , I β (t); deduced T_{1/2}. Comparison with other results. JOUR ZAANE 44 363
- ³⁸Ca 2010BL09 RADIOACTIVITY ³⁸Ca(β^+), ³⁹Ca(β^+)[from Ti(p, X), E=1.4 GeV]; measured CaF molecule ToF, E β , I β (t); deduced T_{1/2}. Comparison with other results. JOUR ZAANE 44 363

A=39

- ³⁹K 2010BL09 RADIOACTIVITY ³⁸Ca(β^+), ³⁹Ca(β^+)[from Ti(p, X), E=1.4 GeV]; measured CaF molecule ToF, E β , I β (t); deduced T_{1/2}. Comparison with other results. JOUR ZAANE 44 363
- ³⁹Ca 2010BL09 RADIOACTIVITY ³⁸Ca(β^+), ³⁹Ca(β^+)[from Ti(p, X), E=1.4 GeV]; measured CaF molecule ToF, E β , I β (t); deduced T_{1/2}. Comparison with other results. JOUR ZAANE 44 363

A=40

- ⁴⁰Si 2009A0ZZ NUCLEAR REACTIONS ⁹Be(⁴⁸Ca, X), E=345 MeV / nucleon. ^{20,22}C, ^{29,30,31,32}Ne, ^{40,42}Si measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

A=41

No references found

A=42

- ⁴²Si 2009A0ZZ NUCLEAR REACTIONS ⁹Be(⁴⁸Ca, X), E=345 MeV / nucleon. ^{20,22}C, ^{29,30,31,32}Ne, ^{40,42}Si measured yields. Comparison with EPAX2 calculations. CONF Dub(Nucl Struct and Dynamics,09) Proc,P76

KEYNUMBERS AND KEYWORDS

A=42 (continued)

⁴²Ar 2010ME07 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ca, X)⁴²Ar / ⁴³Ar / ⁴⁴Ar / ⁴⁵Ar / ⁴⁶Ar, E=310 MeV; measured E γ , I γ , (recoils) γ -coin, and half-lives by differential RDDS method. CLARA-PRISMA system. ^{44,46}Ar; deduced levels, B(E2). Comparison with shell-model calculations. JOUR PRVCA 82 024308

A=43

⁴³Ar 2010ME07 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ca, X)⁴²Ar / ⁴³Ar / ⁴⁴Ar / ⁴⁵Ar / ⁴⁶Ar, E=310 MeV; measured E γ , I γ , (recoils) γ -coin, and half-lives by differential RDDS method. CLARA-PRISMA system. ^{44,46}Ar; deduced levels, B(E2). Comparison with shell-model calculations. JOUR PRVCA 82 024308

A=44

⁴⁴Ar 2010ME07 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ca, X)⁴²Ar / ⁴³Ar / ⁴⁴Ar / ⁴⁵Ar / ⁴⁶Ar, E=310 MeV; measured E γ , I γ , (recoils) γ -coin, and half-lives by differential RDDS method. CLARA-PRISMA system. ^{44,46}Ar; deduced levels, B(E2). Comparison with shell-model calculations. JOUR PRVCA 82 024308

A=45

⁴⁵Ar 2010ME07 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ca, X)⁴²Ar / ⁴³Ar / ⁴⁴Ar / ⁴⁵Ar / ⁴⁶Ar, E=310 MeV; measured E γ , I γ , (recoils) γ -coin, and half-lives by differential RDDS method. CLARA-PRISMA system. ^{44,46}Ar; deduced levels, B(E2). Comparison with shell-model calculations. JOUR PRVCA 82 024308

A=46

⁴⁶Ar 2010ME07 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ca, X)⁴²Ar / ⁴³Ar / ⁴⁴Ar / ⁴⁵Ar / ⁴⁶Ar, E=310 MeV; measured E γ , I γ , (recoils) γ -coin, and half-lives by differential RDDS method. CLARA-PRISMA system. ^{44,46}Ar; deduced levels, B(E2). Comparison with shell-model calculations. JOUR PRVCA 82 024308

A=47

⁴⁷Ca 2009TOZU NUCLEAR REACTIONS ⁴⁸Ca(γ , n), E=9.5-15.3 MeV; measured En, In using polarized beams; deduced σ . Results to be analyzed. REPT TUNL-XLVIII,P93,Tompkins

KEYNUMBERS AND KEYWORDS

A=48

- ⁴⁸Ca 2009DA25 RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd(2 β); measured T_{1/2} for zero / two-neutrino 2 β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c
- ⁴⁸V 2011TA02 NUCLEAR REACTIONS ²⁷Al(d, X)²²Na / ²⁴Na, Ti(d, X)⁴⁸V, In(d, X)¹¹³Sn / ¹¹¹In / ¹¹³In / ¹¹⁴In / ¹¹⁵In / ¹¹⁶In / ¹¹¹Cd / ¹¹⁵Cd, E<40 MeV; measured E γ , I γ ; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26

A=49

- ⁴⁹K 2010BR14 NUCLEAR REACTIONS ²³⁸U(⁴⁸Ca, X), E=330 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, and half-lives by RDDS Plunger method using PRISMA-CLARA spectrometer and Gammasphere array. ⁴⁹K; deduced levels, J, π . Systematics of ^{39,41,43,45,47,49}K nuclei. Comparison with shell-model calculations. JOUR PRVCA 82 034319

A=50

- ⁵⁰K 2008CRZZ RADIOACTIVITY ⁵⁰K, ⁵³Ca(β^-); measured E γ , I γ , $\gamma\gamma$ -co in, E β , I β , β -delayed γ decay. ⁵⁰K deduced isomeric transition. ⁵⁰K, ⁵³Sc deduced levels, J, π . Results on CD only. CONF E.Lansing (NS2008),P90,Crawford
- ⁵⁰Ca 2008CRZZ RADIOACTIVITY ⁵⁰K, ⁵³Ca(β^-); measured E γ , I γ , $\gamma\gamma$ -co in, E β , I β , β -delayed γ decay. ⁵⁰K deduced isomeric transition. ⁵⁰K, ⁵³Sc deduced levels, J, π . Results on CD only. CONF E.Lansing (NS2008),P90,Crawford

A=51

- ⁵¹V 2010MU09 NUCLEAR REACTIONS ⁹Be, ⁵¹V(⁸Li, ⁸Li), (⁸Li, X), E=18.5, 19.6 MeV; measured σ , $\sigma(\theta)$; calculated $\sigma(\theta)$ using Sao Paulo potential and WS form factors; deduced optical model parameters. Comparison with other reactions. Secondary radioactive beam. JOUR ZAANE 45 23

A=52

- ⁵²Fe 2010KA26 RADIOACTIVITY ⁵³Co(EC), ^{53m}Co(EC), (p); deduced Q values and revised level schemes. ⁵³Co; deduced energy of the high-spin isomer. ⁵³Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311

A=53

⁵³ Ca	2008CRZZ	RADIOACTIVITY ⁵⁰ K, ⁵³ Ca(β^-); measured E γ , I γ , $\gamma\gamma$ -co in, E β , I β , β -delayed γ decay. ⁵⁰ K deduced isomeric transition. ⁵⁰ K, ⁵³ Sc deduced levels, J, π . Results on CD only. CONF E.Lansing (NS2008),P90,Crawford
⁵³ Sc	2008CRZZ	RADIOACTIVITY ⁵⁰ K, ⁵³ Ca(β^-); measured E γ , I γ , $\gamma\gamma$ -co in, E β , I β , β -delayed γ decay. ⁵⁰ K deduced isomeric transition. ⁵⁰ K, ⁵³ Sc deduced levels, J, π . Results on CD only. CONF E.Lansing (NS2008),P90,Crawford
⁵³ Mn	2010BE20	NUCLEAR REACTIONS ⁹ Be(⁵⁶ Ni, X) ⁵³ Ni / ⁵³ Mn, E not given; measured E γ , I γ , (particle) γ -coin. ⁵³ Ni; deduced levels, J, π , isobar analog states, isospin effects. Comparison with shell model calculations. JOUR MPLAE 25 1891
⁵³ Fe	2010KA26	ATOMIC MASSES ^{56,57} Fe, ^{53,53m,56} Co, ^{55,56,57} Ni, ^{57,58} Cu, ^{59,60} Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57} Fe, ^{53,53m,55,56} Co, ^{55,56,57,58} Ni, ^{57,58,59} Cu, ^{53,56,57} Fe, ^{59,60} Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54} Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³ Co, ^{54,55,56} Ni, ^{56,57,58} Cu, ^{58,59,60} Zn, ^{60,61} Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311
	2010KA26	RADIOACTIVITY ⁵³ Co(EC), ^{53m} Co(EC), (p); deduced Q values and revised level schemes. ⁵³ Co; deduced energy of the high-spin isomer. ⁵³ Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311
⁵³ Co	2010KA26	ATOMIC MASSES ^{56,57} Fe, ^{53,53m,56} Co, ^{55,56,57} Ni, ^{57,58} Cu, ^{59,60} Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57} Fe, ^{53,53m,55,56} Co, ^{55,56,57,58} Ni, ^{57,58,59} Cu, ^{53,56,57} Fe, ^{59,60} Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54} Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³ Co, ^{54,55,56} Ni, ^{56,57,58} Cu, ^{58,59,60} Zn, ^{60,61} Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311
	2010KA26	RADIOACTIVITY ⁵³ Co(EC), ^{53m} Co(EC), (p); deduced Q values and revised level schemes. ⁵³ Co; deduced energy of the high-spin isomer. ⁵³ Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311
	2010KA26	NUCLEAR REACTIONS ⁵⁴ Fe(p, X) ⁵³ Co / ^{53m} Co / ⁵⁶ Ni / ⁵⁷ Cu / ⁵⁸ Cu, E=40, 50 MeV; ⁵⁴ Fe(³ He, X) ⁵⁵ Ni / ⁵⁶ Ni / ⁵⁹ Zn / ⁶⁰ Zn, E=25 MeV; Ca(²⁰ Ne, X) ⁵⁶ Co / ⁵⁷ Ni, E=75, 105 MeV; measured masses of product nuclides. ⁵⁶ Ni(p, γ) ⁵⁷ Cu; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311

KEYNUMBERS AND KEYWORDS

A=53 (continued)

⁵³Ni 2010BE20 NUCLEAR REACTIONS ⁹Be(⁵⁶Ni, X)⁵³Ni / ⁵³Mn, E not given; measured E γ , I γ , (particle) γ -coin. ⁵³Ni; deduced levels, J, π , isobar analog states, isospin effects. Comparison with shell model calculations. JOUR MPLAE 25 1891

A=54

⁵⁴Co 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

⁵⁴Ni 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

A=55

⁵⁵Co 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

2010KA26 RADIOACTIVITY ⁵³Co(EC), ^{53m}Co(EC), (p); deduced Q values and revised level schemes. ⁵³Co; deduced energy of the high-spin isomer. ⁵³Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311

KEYNUMBERS AND KEYWORDS

A=55 (continued)

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| ⁵⁵ Ni | 2010KA26 | ATOMIC MASSES ^{56,57} Fe, ^{53,53m,56} Co, ^{55,56,57} Ni, ^{57,58} Cu, ^{59,60} Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57} Fe, ^{53,53m,55,56} Co, ^{55,56,57,58} Ni, ^{57,58,59} Cu, ^{53,56,57} Fe, ^{59,60} Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54} Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³ Co, ^{54,55,56} Ni, ^{56,57,58} Cu, ^{58,59,60} Zn, ^{60,61} Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| | 2010KA26 | RADIOACTIVITY ⁵³ Co(EC), ^{53m} Co(EC), (p); deduced Q values and revised level schemes. ⁵³ Co; deduced energy of the high-spin isomer. ⁵³ Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |
| | 2010KA26 | NUCLEAR REACTIONS ⁵⁴ Fe(p, X) ⁵³ Co / ^{53m} Co / ⁵⁶ Ni / ⁵⁷ Cu / ⁵⁸ Cu, E=40, 50 MeV; ⁵⁴ Fe(³ He, X) ⁵⁵ Ni / ⁵⁶ Ni / ⁵⁹ Zn / ⁶⁰ Zn, E=25 MeV; Ca(²⁰ Ne, X) ⁵⁶ Co / ⁵⁷ Ni, E=75, 105 MeV; measured masses of product nuclides. ⁵⁶ Ni(p, γ) ⁵⁷ Cu; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |

A=56

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| ⁵⁶ Fe | 2010KA26 | ATOMIC MASSES ^{56,57} Fe, ^{53,53m,56} Co, ^{55,56,57} Ni, ^{57,58} Cu, ^{59,60} Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57} Fe, ^{53,53m,55,56} Co, ^{55,56,57,58} Ni, ^{57,58,59} Cu, ^{53,56,57} Fe, ^{59,60} Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54} Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³ Co, ^{54,55,56} Ni, ^{56,57,58} Cu, ^{58,59,60} Zn, ^{60,61} Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| ⁵⁶ Co | 2010KA26 | ATOMIC MASSES ^{56,57} Fe, ^{53,53m,56} Co, ^{55,56,57} Ni, ^{57,58} Cu, ^{59,60} Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57} Fe, ^{53,53m,55,56} Co, ^{55,56,57,58} Ni, ^{57,58,59} Cu, ^{53,56,57} Fe, ^{59,60} Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54} Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³ Co, ^{54,55,56} Ni, ^{56,57,58} Cu, ^{58,59,60} Zn, ^{60,61} Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| | 2010KA26 | RADIOACTIVITY ⁵³ Co(EC), ^{53m} Co(EC), (p); deduced Q values and revised level schemes. ⁵³ Co; deduced energy of the high-spin isomer. ⁵³ Co, ^{55,56} Ni, ^{57,58} Cu, ^{59,60} Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |

KEYNUMBERS AND KEYWORDS

A=56 (continued)

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| 2010KA26 | NUCLEAR REACTIONS $^{54}\text{Fe}(p, X)^{53}\text{Co} / ^{53m}\text{Co} / ^{56}\text{Ni} / ^{57}\text{Cu} / ^{58}\text{Cu}$, E=40, 50 MeV; $^{54}\text{Fe}(^3\text{He}, X)^{55}\text{Ni} / ^{56}\text{Ni} / ^{59}\text{Zn} / ^{60}\text{Zn}$, E=25 MeV; $\text{Ca}(^{20}\text{Ne}, X)^{56}\text{Co} / ^{57}\text{Ni}$, E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(p, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |
| ^{56}Ni | 2010KA26 ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| 2010KA26 | RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |
| 2010KA26 | NUCLEAR REACTIONS $^{54}\text{Fe}(p, X)^{53}\text{Co} / ^{53m}\text{Co} / ^{56}\text{Ni} / ^{57}\text{Cu} / ^{58}\text{Cu}$, E=40, 50 MeV; $^{54}\text{Fe}(^3\text{He}, X)^{55}\text{Ni} / ^{56}\text{Ni} / ^{59}\text{Zn} / ^{60}\text{Zn}$, E=25 MeV; $\text{Ca}(^{20}\text{Ne}, X)^{56}\text{Co} / ^{57}\text{Ni}$, E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(p, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |
| ^{56}Cu | 2010KA26 ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |

A=57

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| ^{57}Fe | 2010KA26 ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
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KEYNUMBERS AND KEYWORDS

A=57 (continued)

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| ^{57}Ni | 2010KA26 | ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| | 2010KA26 | RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |
| | 2010KA26 | NUCLEAR REACTIONS $^{54}\text{Fe}(\text{p}, \text{X})^{53}\text{Co}$ / ^{53m}Co / ^{56}Ni / ^{57}Cu / ^{58}Cu , E=40, 50 MeV; $^{54}\text{Fe}(\text{}^3\text{He}, \text{X})^{55}\text{Ni}$ / ^{56}Ni / ^{59}Zn / ^{60}Zn , E=25 MeV; $\text{Ca}(\text{}^{20}\text{Ne}, \text{X})^{56}\text{Co}$ / ^{57}Ni , E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(\text{p}, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |
| ^{57}Cu | 2010KA26 | ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |
| | 2010KA26 | RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |
| | 2010KA26 | NUCLEAR REACTIONS $^{54}\text{Fe}(\text{p}, \text{X})^{53}\text{Co}$ / ^{53m}Co / ^{56}Ni / ^{57}Cu / ^{58}Cu , E=40, 50 MeV; $^{54}\text{Fe}(\text{}^3\text{He}, \text{X})^{55}\text{Ni}$ / ^{56}Ni / ^{59}Zn / ^{60}Zn , E=25 MeV; $\text{Ca}(\text{}^{20}\text{Ne}, \text{X})^{56}\text{Co}$ / ^{57}Ni , E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(\text{p}, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |

A=58

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| ^{58}Ni | 2010EK01 | NUCLEAR REACTIONS $^{58}\text{Ni}(\text{}^{106}\text{In}, \text{}^{106}\text{In}')$, ($^{108}\text{In}, \text{}^{108}\text{In}'$), E=2.8 MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin following Coulomb excitation at the REX-ISOLDE facility. $^{106,108}\text{In}$; deduced levels, J, π , B(E2); calculated low-lying level properties, E2, M1 matrix elements using shell model plus coupled channels. JOUR ZAANE 44 355 |
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A=58 (continued)

- 2010KA26 ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311
- 2010KA26 RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311
- 2010MA45 NUCLEAR REACTIONS $^{58}\text{Ni}(^{17}\text{F}, ^{17}\text{F})$, $(^{17}\text{F}, ^{17}\text{F}')$, $(^{17}\text{F}, \text{p}^{16}\text{O})$, E=54.1, 58.5 MeV; measured $\sigma(\theta)$ using EXODET array; analyzed "reduced" σ . Calculations using coupled-channels code FRESKO. Comparisons with $^{58}\text{Ni}(^{16}\text{O}, ^{16}\text{O})$ and $^{64}\text{Zn}(^{16}\text{O}, ^{16}\text{O})$. Secondary radioactive beams. JOUR NUPAB 834 488c
- 2010ZE06 NUCLEAR REACTIONS ^{58}Ni , $^{204,206,208}\text{Pb}(\text{polarized p, p})$, E=295 MeV; measured proton spectra, $\sigma(\theta)$ and analyzing powers; deduced neutron and proton densities, neutron skin thickness and rms radii using model-independent sum-of-Gaussians distributions. Comparison with relativistic impulse approximation (RIA) for ^{58}Ni data and with RIA and Murdock and Horowitz (MH) model calculations for Pb nuclei. JOUR PRVCA 82 044611
- ^{58}Cu 2010KA26 ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311
- 2010KA26 RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311
- 2010KA26 NUCLEAR REACTIONS $^{54}\text{Fe}(\text{p, X})^{53}\text{Co} / ^{53m}\text{Co} / ^{56}\text{Ni} / ^{57}\text{Cu} / ^{58}\text{Cu}$, E=40, 50 MeV; $^{54}\text{Fe}(^3\text{He, X})^{55}\text{Ni} / ^{56}\text{Ni} / ^{59}\text{Zn} / ^{60}\text{Zn}$, E=25 MeV; $\text{Ca}(^{20}\text{Ne, X})^{56}\text{Co} / ^{57}\text{Ni}$, E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(\text{p, } \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311

KEYNUMBERS AND KEYWORDS

A=58 (continued)

⁵⁸Zn 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

A=59

⁵⁹Co 2010S016 NUCLEAR REACTIONS ⁵⁹Co(⁶Li, dα), E=29.6 MeV; measured Eα, Iα(θ), Ed, Id(θ), dα-coin; deduced σ(θ), direct breakup T_{1/2}; calculated T_{1/2}. Discussed breakup reaction mechanism features. JOUR NUPAB 834 420c

⁵⁹Cu 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

2010KA26 RADIOACTIVITY ⁵³Co(EC), ^{53m}Co(EC), (p); deduced Q values and revised level schemes. ⁵³Co; deduced energy of the high-spin isomer. ⁵³Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311

⁵⁹Zn 2010KA26 ATOMIC MASSES ^{56,57}Fe, ^{53,53m,56}Co, ^{55,56,57}Ni, ^{57,58}Cu, ^{59,60}Zn; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. ^{56,57}Fe, ^{53,53m,55,56}Co, ^{55,56,57,58}Ni, ^{57,58,59}Cu, ^{53,56,57}Fe, ^{59,60}Zn; measured frequency ratio pairs. Comparison with previous mass measurements. ^{53,54}Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ⁵³Co, ^{54,55,56}Ni, ^{56,57,58}Cu, ^{58,59,60}Zn, ^{60,61}Ga; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

2010KA26 RADIOACTIVITY ⁵³Co(EC), ^{53m}Co(EC), (p); deduced Q values and revised level schemes. ⁵³Co; deduced energy of the high-spin isomer. ⁵³Co, ^{55,56}Ni, ^{57,58}Cu, ^{59,60}Zn(EC); deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311

KEYNUMBERS AND KEYWORDS

A=59 (continued)

2010KA26 NUCLEAR REACTIONS $^{54}\text{Fe}(p, X)^{53}\text{Co} / ^{53m}\text{Co} / ^{56}\text{Ni} / ^{57}\text{Cu} / ^{58}\text{Cu}$, E=40, 50 MeV; $^{54}\text{Fe}(^3\text{He}, X)^{55}\text{Ni} / ^{56}\text{Ni} / ^{59}\text{Zn} / ^{60}\text{Zn}$, E=25 MeV; $\text{Ca}(^{20}\text{Ne}, X)^{56}\text{Co} / ^{57}\text{Ni}$, E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(p, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311

A=60

^{60}Mn	2008FOZS	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, X)$, E=80 MeV / nucleon; measured thick target E(particle), I(particle), A(particle), Z(particle), E γ , I γ , (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden
	2010H013	RADIOACTIVITY $^{60,62}\text{Mn}(\beta^-)$ [from $^{238}\text{U}(^{64}\text{Ni}, X)$, E=430 MEV]; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity. JOUR PRVCA 82 044305
^{60}Fe	2010H013	NUCLEAR REACTIONS $^{238}\text{U}(^{64}\text{Ni}, X)$, E=430 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, prompt and delayed γ spectra using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity, yrast levels. Comparison with shell model calculations. Level systematics of $^{54,56,58,60,62,64}\text{Fe}$ nuclei. JOUR PRVCA 82 044305
	2010H013	RADIOACTIVITY $^{60,62}\text{Mn}(\beta^-)$ [from $^{238}\text{U}(^{64}\text{Ni}, X)$, E=430 MEV]; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity. JOUR PRVCA 82 044305
^{60}Cu	2010AL19	NUCLEAR REACTIONS $^{55}\text{Mn}(^{20}\text{Ne}, X)^{70}\text{Se} / ^{70}\text{As} / ^{71}\text{As} / ^{72}\text{As} / ^{66}\text{Ge} / ^{67}\text{Ge} / ^{69}\text{Ge} / ^{65}\text{Ga} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{63}\text{Zn} / ^{60}\text{Cu} / ^{61}\text{Cu}$, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum. Comparison with statistical code PACE-2. JOUR JPGPE 37 115101
	2010KA26	RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311
^{60}Zn	2010KA26	ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311

KEYNUMBERS AND KEYWORDS

A=60 (continued)

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| 2010KA26 | RADIOACTIVITY $^{53}\text{Co}(\text{EC})$, $^{53m}\text{Co}(\text{EC})$, (p); deduced Q values and revised level schemes. ^{53}Co ; deduced energy of the high-spin isomer. ^{53}Co , $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}(\text{EC})$; deduced Q values from measured masses, electron capture probabilities, Logft values, and Gamow-Teller matrix elements. JOUR PRVCA 82 034311 |
| 2010KA26 | NUCLEAR REACTIONS $^{54}\text{Fe}(\text{p}, \text{X})^{53}\text{Co}$ / ^{53m}Co / ^{56}Ni / ^{57}Cu / ^{58}Cu , E=40, 50 MeV; $^{54}\text{Fe}(\text{}^3\text{He}, \text{X})^{55}\text{Ni}$ / ^{56}Ni / ^{59}Zn / ^{60}Zn , E=25 MeV; $\text{Ca}(\text{}^{20}\text{Ne}, \text{X})^{56}\text{Co}$ / ^{57}Ni , E=75, 105 MeV; measured masses of product nuclides. $^{56}\text{Ni}(\text{p}, \gamma)^{57}\text{Cu}$; deduced reaction Q value, proton resonance energies, rescaled proton widths, and reaction rates of astrophysical significance. JOUR PRVCA 82 034311 |
| ^{60}Ga 2010KA26 | ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |

A=61

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| ^{61}Cu 2010AL19 | NUCLEAR REACTIONS $^{55}\text{Mn}(\text{}^{20}\text{Ne}, \text{X})^{70}\text{Se}$ / ^{70}As / ^{71}As / ^{72}As / ^{66}Ge / ^{67}Ge / ^{69}Ge / ^{65}Ga / ^{66}Ga / ^{67}Ga / ^{63}Zn / ^{60}Cu / ^{61}Cu , E=51-164 MeV; measured reaction products recoils, E_γ , I_γ ; deduced σ , angular momentum. Comparison with statistical code PACE-2. JOUR JPGPE 37 115101 |
| ^{61}Ga 2010KA26 | ATOMIC MASSES $^{56,57}\text{Fe}$, $^{53,53m,56}\text{Co}$, $^{55,56,57}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; measured cyclotron resonance frequencies and ratios by JYFLTRAP Penning trap spectrometer; deduced mass excesses. $^{56,57}\text{Fe}$, $^{53,53m,55,56}\text{Co}$, $^{55,56,57,58}\text{Ni}$, $^{57,58,59}\text{Cu}$, $^{53,56,57}\text{Fe}$, $^{59,60}\text{Zn}$; measured frequency ratio pairs. Comparison with previous mass measurements. $^{53,54}\text{Co}$, $^{55,56}\text{Ni}$, $^{57,58}\text{Cu}$, $^{59,60}\text{Zn}$; deduced Coulomb displacement energies for the T=1 / 2 doublets and T=1 triplets. ^{53}Co , $^{54,55,56}\text{Ni}$, $^{56,57,58}\text{Cu}$, $^{58,59,60}\text{Zn}$, $^{60,61}\text{Ga}$; deduced S(p) values. Comparison of all the deduced values with AME-2003. JOUR PRVCA 82 034311 |

A=62

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| ^{62}Mn 2010H013 | RADIOACTIVITY $^{60,62}\text{Mn}(\beta^-)$ [from $^{238}\text{U}(\text{}^{64}\text{Ni}, \text{X})$, E=430 MEV]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity. JOUR PRVCA 82 044305 |
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KEYNUMBERS AND KEYWORDS

A=62 (continued)

^{62}Fe	2010H013	NUCLEAR REACTIONS $^{238}\text{U}(^{64}\text{Ni}, \text{X})$, E=430 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, prompt and delayed γ spectra using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity, yrast levels. Comparison with shell model calculations. Level systematics of $^{54,56,58,60,62,64}\text{Fe}$ nuclei. JOUR PRVCA 82 044305
	2010H013	RADIOACTIVITY $^{60,62}\text{Mn}(\beta^-)$ [from $^{238}\text{U}(^{64}\text{Ni}, \text{X})$, E=430 MEV]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. $^{60,62}\text{Fe}$; deduced levels, J, π , multipolarity. JOUR PRVCA 82 044305
^{62}Zn	2008FIZX	RADIOACTIVITY $^{62}\text{Ga}(\beta^+)$; measured $E\beta$, $I\beta$, $E\gamma$, $I\gamma$, $\beta\gamma$ -coin; deduced levels, J, π , δ , ft. Results on CD only. CONF E.Lansing (NS2008),P103,Finlay
	2008GRZO	RADIOACTIVITY $^{62}\text{Ga}(\beta^+)$; measured $E\beta$, $I\beta(t)$, $\beta\gamma$ -coin; deduced $T_{1/2}$. Results on CD only. CONF E.Lansing (NS2008),P109,Grinyer
^{62}Ga	2008FIZX	RADIOACTIVITY $^{62}\text{Ga}(\beta^+)$; measured $E\beta$, $I\beta$, $E\gamma$, $I\gamma$, $\beta\gamma$ -coin; deduced levels, J, π , δ , ft. Results on CD only. CONF E.Lansing (NS2008),P103,Finlay
	2008GRZO	RADIOACTIVITY $^{62}\text{Ga}(\beta^+)$; measured $E\beta$, $I\beta(t)$, $\beta\gamma$ -coin; deduced $T_{1/2}$. Results on CD only. CONF E.Lansing (NS2008),P109,Grinyer

A=63

^{63}Zn	2010AL19	NUCLEAR REACTIONS $^{55}\text{Mn}(^{20}\text{Ne}, \text{X})^{70}\text{Se} / ^{70}\text{As} / ^{71}\text{As} / ^{72}\text{As} / ^{66}\text{Ge} / ^{67}\text{Ge} / ^{69}\text{Ge} / ^{65}\text{Ga} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{63}\text{Zn} / ^{60}\text{Cu} / ^{61}\text{Cu}$, E=51-164 MeV; measured reaction products recoils, $E\gamma$, $I\gamma$; deduced σ , angular momentum. Comparison with statistical code PACE-2. JOUR JPGPE 37 115101
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A=64

^{64}Cu	2008HIZO	NUCLEAR REACTIONS $^{64}\text{Zn}(t, ^3\text{He})$, E=115 MeV / nucleon; measured $\sigma(\theta, E)$. ^{64}Cu deduced GT strength; ^{58}Ni to ^{58}Co electron capture rate. Results on CD only. CONF E.Lansing (NS2008),P113,Hitt
^{64}Zn	2010DI10	NUCLEAR REACTIONS $^{64}\text{Zn}(^9\text{Be}, ^9\text{Be})$, ($^{10}\text{Be}, ^{10}\text{Be}$), ($^{11}\text{Be}, ^{11}\text{Be}$), E(cm)=25.4 MeV; measured halo nuclei $\sigma(\theta)$; calculated $\sigma(\theta)$. $^{64}\text{Zn}(^6\text{Li}, ^6\text{Li})$, E(cm)=10-40 MeV; measured halo nuclei fusion σ ; calculated σ . $^{64}\text{Zn}(^7\text{Li}, ^7\text{Li})$, E=cyclotron; $^{64}\text{Zn}(^9\text{Be}, ^9\text{Be})$, E=cyclotron; deduced reaction mechanism features. Optical model with double folding potential. Discussed threshold anomaly, reaction mechanism. JOUR NUPAB 834 408c

A=65

- ⁶⁵Cu 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁵Ga 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101

A=66

- ⁶⁶Cu 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- 2011L001 NUCLEAR MOMENTS ⁶⁶Cu [from Cu(d, p), E=6 MeV]; measured quadrupole oscillation frequency; deduced spectroscopic quadrupole moment of the 6⁻ isomeric state, deformation, oblate shape. Comparison with HFB calculations. JOUR PYLBB 694 316
- ⁶⁶Ga 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101
- ⁶⁶Ge 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101

A=67

- ⁶⁷Cu 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁷Ga 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101
- ⁶⁷Ge 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101

A=68

- ⁶⁸Zn 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁸Ga 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁸Ge 2010MI18 NUCLEAR REACTIONS ⁵⁸Ni(¹⁶O, X)⁶⁸Ge / ⁷¹Se / ⁷²Se / ⁷¹As / ⁷²Br, E=40-60 MeV; measured E γ , I γ ; deduced σ , γ -ray energies and intensities. Comparison with evaporation codes CASCADE and PACE 4. JOUR RJPHE 55 712

A=69

- ⁶⁹Zn 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁹Ga 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁶⁹Ge 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101

A=70

- ⁷⁰Ga 2010LE19 NUCLEAR REACTIONS ⁶⁵Cu(⁸He, X)⁶⁵Cu / ⁶⁶Cu / ⁶⁷Cu / ⁶⁸Zn / ⁶⁹Zn / ⁶⁸Ga / ⁶⁹Ga / ⁷⁰Ga, [⁸He secondary beam from C(¹³C, X), E=75 MeV / nucleon primary reaction], E=19.9, 30.6 MeV; measured E γ , I γ , neutron spectra, (particle) γ -, (particle)n γ -, $\gamma\gamma$ -coin, residue σ for fusion and neutron transfer, $\sigma(\theta)$ for ⁴He, ⁶He and ⁸He using EXOGAM array and neutron wall. Coupled reaction channel calculations. CASCADE code used for statistical model calculation. JOUR PRVCA 82 044617
- ⁷⁰As 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101
- ⁷⁰Se 2010AL19 NUCLEAR REACTIONS ⁵⁵Mn(²⁰Ne, X)⁷⁰Se / ⁷⁰As / ⁷¹As / ⁷²As / ⁶⁶Ge / ⁶⁷Ge / ⁶⁹Ge / ⁶⁵Ga / ⁶⁶Ga / ⁶⁷Ga / ⁶³Zn / ⁶⁰Cu / ⁶¹Cu, E=51-164 MeV; measured reaction products recoils, E γ , I γ ; deduced σ , angular momentum.Comparison with statistical code PACE-2. JOUR JPGPE 37 115101

KEYNUMBERS AND KEYWORDS

A=71

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|------------------|----------|---|
| ^{71}Co | 2010RAZY | RADIOACTIVITY $^{71,73}\text{Co}(\beta^-)$ [from $^9\text{Be}(^{86}\text{Kr}, \text{X})$, E=140 MeV / nucleon]; measured E_γ , I_γ , $E\beta$, $I\beta$, $\gamma\gamma^-$, $\beta\gamma^-$, (implant ions) $\beta\gamma$ -coin, half-lives using SeGA array. $^{71,73}\text{Ni}$; deduced levels, J, π , logft values. Comparisons with shell-model calculations. PREPRINT
Rajabali,11/7/2010 |
| ^{71}Ni | 2010RAZY | RADIOACTIVITY $^{71,73}\text{Co}(\beta^-)$ [from $^9\text{Be}(^{86}\text{Kr}, \text{X})$, E=140 MeV / nucleon]; measured E_γ , I_γ , $E\beta$, $I\beta$, $\gamma\gamma^-$, $\beta\gamma^-$, (implant ions) $\beta\gamma$ -coin, half-lives using SeGA array. $^{71,73}\text{Ni}$; deduced levels, J, π , logft values. Comparisons with shell-model calculations. PREPRINT
Rajabali,11/7/2010 |
| ^{71}As | 2010AL19 | NUCLEAR REACTIONS $^{55}\text{Mn}(^{20}\text{Ne}, \text{X})^{70}\text{Se} / ^{70}\text{As} / ^{71}\text{As} / ^{72}\text{As} / ^{66}\text{Ge} / ^{67}\text{Ge} / ^{69}\text{Ge} / ^{65}\text{Ga} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{63}\text{Zn} / ^{60}\text{Cu} / ^{61}\text{Cu}$, E=51-164 MeV; measured reaction products recoils, E_γ , I_γ ; deduced σ , angular momentum. Comparison with statistical code PACE-2. JOUR JPGPE 37 115101 |
| | 2010MI18 | NUCLEAR REACTIONS $^{58}\text{Ni}(^{16}\text{O}, \text{X})^{68}\text{Ge} / ^{71}\text{Se} / ^{72}\text{Se} / ^{71}\text{As} / ^{72}\text{Br}$, E=40-60 MeV; measured E_γ , I_γ ; deduced σ , γ -ray energies and intensities. Comparison with evaporation codes CASCADE and PACE 4. JOUR RJPHE 55 712 |
| ^{71}Se | 2010MI18 | NUCLEAR REACTIONS $^{58}\text{Ni}(^{16}\text{O}, \text{X})^{68}\text{Ge} / ^{71}\text{Se} / ^{72}\text{Se} / ^{71}\text{As} / ^{72}\text{Br}$, E=40-60 MeV; measured E_γ , I_γ ; deduced σ , γ -ray energies and intensities. Comparison with evaporation codes CASCADE and PACE 4. JOUR RJPHE 55 712 |

A=72

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|------------------|----------|--|
| ^{72}Ni | 2010H012 | RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, $(\beta^- \text{n})$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$, E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{72}Cu | 2010FL02 | NUCLEAR MOMENTS ^{72}Cu , ^{74}Cu ; measured resonance fluorescence spectra, hyperfine structure parameters, spins, static magnetic dipole and electric quadrupole moments of the ground states using collinear laser spectroscopy at the CERN on-Line Isotope Mass Separator (ISOLDE) facility. Comparison with shell-model calculations using the JUN45 interaction. JOUR PRVCA 82 041302 |
| ^{72}As | 2010AL19 | NUCLEAR REACTIONS $^{55}\text{Mn}(^{20}\text{Ne}, \text{X})^{70}\text{Se} / ^{70}\text{As} / ^{71}\text{As} / ^{72}\text{As} / ^{66}\text{Ge} / ^{67}\text{Ge} / ^{69}\text{Ge} / ^{65}\text{Ga} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{63}\text{Zn} / ^{60}\text{Cu} / ^{61}\text{Cu}$, E=51-164 MeV; measured reaction products recoils, E_γ , I_γ ; deduced σ , angular momentum. Comparison with statistical code PACE-2. JOUR JPGPE 37 115101 |

A=72 (continued)

- 2010PA29 NUCLEAR REACTIONS $^{56}\text{Fe}(^{19}\text{F}, n2p)^{72}\text{As}$, E=60 MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$, $\gamma(\theta, H, t)$, and magnetic moment. JOUR PRVCA 82 044313
- 2010PA29 NUCLEAR MOMENTS ^{72}As ; measured magnetic moment by time-integral perturbed angular distributions method. Comparison with shell-model calculations. JOUR PRVCA 82 044313
- ^{72}Se 2010MI18 NUCLEAR REACTIONS $^{58}\text{Ni}(^{16}\text{O}, X)^{68}\text{Ge} / ^{71}\text{Se} / ^{72}\text{Se} / ^{71}\text{As} / ^{72}\text{Br}$, E=40-60 MeV; measured $E\gamma$, $I\gamma$; deduced σ , γ -ray energies and intensities. Comparison with evaporation codes CASCADE and PACE 4. JOUR RJPHE 55 712
- ^{72}Br 2010MI18 NUCLEAR REACTIONS $^{58}\text{Ni}(^{16}\text{O}, X)^{68}\text{Ge} / ^{71}\text{Se} / ^{72}\text{Se} / ^{71}\text{As} / ^{72}\text{Br}$, E=40-60 MeV; measured $E\gamma$, $I\gamma$; deduced σ , γ -ray energies and intensities. Comparison with evaporation codes CASCADE and PACE 4. JOUR RJPHE 55 712

A=73

- ^{73}Co 2010H012 RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, $(\beta^- n)$ [from $\text{Be}(^{86}\text{Kr}, X)$, E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- 2010RAZY RADIOACTIVITY $^{71,73}\text{Co}(\beta^-)$ [from $^9\text{Be}(^{86}\text{Kr}, X)$, E=140 MeV / nucleon]; measured $E\gamma$, $I\gamma$, $E\beta$, $I\beta$, $\gamma\gamma^-$, $\beta\gamma^-$, (implant ions) $\beta\gamma$ -coin, half-lives using SeGA array. $^{71,73}\text{Ni}$; deduced levels, J, π , logft values. Comparisons with shell-model calculations. PREPRINT Rajabali,11/7/2010
- ^{73}Ni 2010H012 RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, $(\beta^- n)$ [from $\text{Be}(^{86}\text{Kr}, X)$, E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- 2010RAZY RADIOACTIVITY $^{71,73}\text{Co}(\beta^-)$ [from $^9\text{Be}(^{86}\text{Kr}, X)$, E=140 MeV / nucleon]; measured $E\gamma$, $I\gamma$, $E\beta$, $I\beta$, $\gamma\gamma^-$, $\beta\gamma^-$, (implant ions) $\beta\gamma$ -coin, half-lives using SeGA array. $^{71,73}\text{Ni}$; deduced levels, J, π , logft values. Comparisons with shell-model calculations. PREPRINT Rajabali,11/7/2010

A=74

- ⁷⁴Co 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁴Ni 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁴Cu 2010FL02 NUCLEAR MOMENTS ⁷²Cu, ⁷⁴Cu; measured resonance fluorescence spectra, hyperfine structure parameters, spins, static magnetic dipole and electric quadrupole moments of the ground states using collinear laser spectroscopy at the CERN on-Line Isotope Mass Separator (ISOLDE) facility. Comparison with shell-model calculations using the JUN45 interaction. JOUR PRVCA 82 041302
- 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁴Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749

A=75

- ⁷⁵Co 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁵Ni 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁵Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁵Zn 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁵Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749

A=76

- ⁷⁶Ni 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁶Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁶Zn 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁶Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749
- ⁷⁶Sr 2010SC21 NUCLEAR REACTIONS ⁴⁰Ca(⁴⁰Ca, α), E=50 MeV / nucleon; measured E α , I α , σ , $\sigma(\theta)$. ³⁶Ar; deduced missing energy spectrum, levels, J, π . Comparison of $\sigma(\theta)$ with calculations using time-dependent Schroedinger equation (TDSE). JOUR PRVCA 82 031301

A=77

- ⁷⁷Ni 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁷Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁷Zn 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁷Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749

A=78

- ⁷⁸Ni 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806

A=78 (continued)

- ⁷⁸Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁸Zn 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁸Ga 2008FOZS NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=80 MeV / nucleon; measured thick target E(particle), I(particle), A(particle), Z(particle), E γ , I γ , (particle) γ -coin. ⁶⁰Mn, ⁷⁸Ga, ⁸²Ga, ⁹²Br, ⁹⁵Rb, ⁹⁸Rb, ⁹²Y, ¹⁰¹Y, ¹¹²Tc deduced isomeric transition, T_{1/2}, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden
- ⁷⁸Ga 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁸Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749
- ⁷⁸Sr 2010HE16 NUCLEAR REACTIONS ⁴⁰Ca(⁴⁰Ca, 2p), ⁴⁸Ca(⁴⁸Ca, 2p), E=80 MeV / nucleon; measured E_p, I_p(θ), pp-coin, Z(particle), A(particle), particle multiplicity, total transverse energy; deduced pp correlation function, emitting source size. JOUR NUPAB 834 552c

A=79

- ⁷⁹Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁹Zn 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁹Ga 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁷⁹Br 2010SP05 NUCLEAR REACTIONS ^{77,78,80}Se(p, n), (p, 2n), (p, 4n)⁷⁷Br, ⁸⁰Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749

A=80

- ⁸⁰Cu 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806

KEYNUMBERS AND KEYWORDS

A=80 (continued)

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|------------------|----------|--|
| ^{80}Zn | 2010H012 | RADIOACTIVITY ^{73,74,75} Co, ^{75,76,77,78} Ni, ^{76,77,78,79,80} Cu, ^{79,80,81} Zn, ^{81,82} Ga(β^-), (β^- n)[from Be(⁸⁶ Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸ Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{80}Ga | 2010H012 | RADIOACTIVITY ^{73,74,75} Co, ^{75,76,77,78} Ni, ^{76,77,78,79,80} Cu, ^{79,80,81} Zn, ^{81,82} Ga(β^-), (β^- n)[from Be(⁸⁶ Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸ Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{80}Ge | 2010H012 | RADIOACTIVITY ^{73,74,75} Co, ^{75,76,77,78} Ni, ^{76,77,78,79,80} Cu, ^{79,80,81} Zn, ^{81,82} Ga(β^-), (β^- n)[from Be(⁸⁶ Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸ Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{80}Br | 2010SP05 | NUCLEAR REACTIONS ^{77,78,80} Se(p, n), (p, 2n), (p, 4n) ⁷⁷ Br, ⁸⁰ Se(p, n), E=21-85 MeV; measured E γ , I γ ; deduced σ and their uncertainties, integral yields. JOUR RAACA 98 749 |

A=81

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|------------------|----------|--|
| ^{81}Zn | 2010H012 | RADIOACTIVITY ^{73,74,75} Co, ^{75,76,77,78} Ni, ^{76,77,78,79,80} Cu, ^{79,80,81} Zn, ^{81,82} Ga(β^-), (β^- n)[from Be(⁸⁶ Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸ Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
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KEYNUMBERS AND KEYWORDS

A=81 (continued)

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|------------------|----------|--|
| ^{81}Ga | 2010H012 | RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, (β^-n) [from Be^{86}Kr , X), E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{81}Ge | 2010H012 | RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, (β^-n) [from Be^{86}Kr , X), E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |
| ^{81}Br | 2010MI21 | RADIOACTIVITY $^{81}\text{Kr}(\text{EC})$ [from $^{93}\text{Nb}(\text{p}, \text{X})$, E=1 GeV]; measured $E\gamma$, $I\gamma$, x-ray spectrum, $\gamma(\text{x ray})$ -coin; deduced K-component of the radiative electron capture spectrum. Comparison with theoretical model predictions. $^{83}\text{Rb}(\text{EC})$; measured $E\gamma$. JOUR PRVCA 82 044308 |
| ^{81}Kr | 2010MI21 | RADIOACTIVITY $^{81}\text{Kr}(\text{EC})$ [from $^{93}\text{Nb}(\text{p}, \text{X})$, E=1 GeV]; measured $E\gamma$, $I\gamma$, x-ray spectrum, $\gamma(\text{x ray})$ -coin; deduced K-component of the radiative electron capture spectrum. Comparison with theoretical model predictions. $^{83}\text{Rb}(\text{EC})$; measured $E\gamma$. JOUR PRVCA 82 044308 |

A=82

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| ^{82}Ga | 2008FOZS | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=80 MeV / nucleon; measured thick target E(particle), I(particle), A(particle), Z(particle), $E\gamma$, $I\gamma$, (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden |
| | 2010H012 | RADIOACTIVITY $^{73,74,75}\text{Co}$, $^{75,76,77,78}\text{Ni}$, $^{76,77,78,79,80}\text{Cu}$, $^{79,80,81}\text{Zn}$, $^{81,82}\text{Ga}(\beta^-)$, (β^-n) [from Be^{86}Kr , X), E=140 MeV / nucleon]; measured β spectra, βn -coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. $^{78}\text{Ni}(\beta^-)$; calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806 |

KEYNUMBERS AND KEYWORDS

A=82 (continued)

- ⁸²Ge 2010H012 RADIOACTIVITY ^{73,74,75}Co, ^{75,76,77,78}Ni, ^{76,77,78,79,80}Cu, ^{79,80,81}Zn, ^{81,82}Ga(β^-), (β^- n)[from Be(⁸⁶Kr, X), E=140 MeV / nucleon]; measured β spectra, β n-coin, neutron spectra, half-lives, delayed neutron-emission probabilities; calculated half-lives, P(n) using QRPA, CQRPA and OXBASH shell model. Discussed effects on various types of models for the rapid neutron-capture process (r-process) in nucleosynthesis. A=1-210; calculated abundances with classical r-process and HEW models using known decay data. ⁷⁸Ni(β^-); calculated Gamow-Teller strengths, effect on abundances. JOUR PRVCA 82 025806
- ⁸²Se 2009DA25 RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd(2β); measured T_{1/2} for zero / two-neutrino 2β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c

A=83

- ⁸³Kr 2010MI21 RADIOACTIVITY ⁸¹Kr(EC)[from ⁹³Nb(p, X), E=1 GeV]; measured E γ , I γ , x-ray spectrum, γ (x ray)-coin; deduced K-component of the radiative electron capture spectrum. Comparison with theoretical model predictions. ⁸³Rb(EC); measured E γ . JOUR PRVCA 82 044308
- ⁸³Rb 2010MI21 RADIOACTIVITY ⁸¹Kr(EC)[from ⁹³Nb(p, X), E=1 GeV]; measured E γ , I γ , x-ray spectrum, γ (x ray)-coin; deduced K-component of the radiative electron capture spectrum. Comparison with theoretical model predictions. ⁸³Rb(EC); measured E γ . JOUR PRVCA 82 044308

A=84

No references found

A=85

No references found

A=86

No references found

A=87

No references found

KEYNUMBERS AND KEYWORDS

A=88

No references found

A=89

⁸⁹Y 2010BA31 NUCLEAR REACTIONS U(p, F)⁸⁹Y / ⁹⁶Y / ⁹⁸Y / ⁹⁹Y / ¹⁰⁰Y, E=30 MeV; measured hyperfine resonance fluorescence spectra; deduced isotope shifts, hyperfine parameters, nuclear spin and prolate shape. JOUR JPGPE 37 105103

A=90

⁹⁰Zr 2009RUZX NUCLEAR REACTIONS ⁹⁰Zr(γ , γ'), E=6.8-10.8 MeV; measured E γ , I γ (θ); deduced B(M1); calculated B(M1) using QRPA with different wave functions. REPT TUNL-XLVIII,P89,Rusev

A=91

⁹¹Rb 2010SI17 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma$ (θ), and half-lives using EUROGAM-II and Gammasphere arrays. ^{91,93,95}Rb; deduced levels, J, π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in ^{89,91,93,95}Rb. ⁹³Rb, ⁹⁵Y; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302

⁹¹Nb 2010HE15 NUCLEAR REACTIONS ⁷⁶Ge(¹⁹F, 4n)⁹¹Nb, E=80 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced high-spin states and bands, J, π , level scheme. JOUR CPLEE 27 102104

 2010OR01 NUCLEAR REACTIONS ⁹³Nb(n, n' γ), E=1.5-3 MeV; ⁹²Zr(p, 2n γ), E=11.5-19 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, γ (θ), $\gamma\gamma$ (θ), level half-lives by DSAM. ⁹³Nb; deduced levels, J, π , multipolarity, mixing ratios, configurations, B(M1), B(E2), One-phonon isoscalar and isovector excitations. Comparison with shell-model calculations. JOUR PRVCA 82 044317

A=92

⁹²Br 2008FOZS NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=80 MeV / nucleon; measured thick target E(particle), I(particle), A(particle), Z(particle), E γ , I γ , (particle) γ -coin. ⁶⁰Mn, ⁷⁸Ga, ⁸²Ga, ⁹²Br, ⁹⁵Rb, ⁹⁸Rb, ⁹²Y, ¹⁰¹Y, ¹¹²Tc deduced isomeric transition, T_{1/2}, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden

⁹²Y 2008FOZS NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=80 MeV / nucleon; measured thick target E(particle), I(particle), A(particle), Z(particle), E γ , I γ , (particle) γ -coin. ⁶⁰Mn, ⁷⁸Ga, ⁸²Ga, ⁹²Br, ⁹⁵Rb, ⁹⁸Rb, ⁹²Y, ¹⁰¹Y, ¹¹²Tc deduced isomeric transition, T_{1/2}, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden

KEYNUMBERS AND KEYWORDS

A=92 (continued)

⁹²Nb 2010PA30 NUCLEAR REACTIONS ⁸⁹Y(⁹Be, xn)⁹⁶Tc / ⁹⁵Tc / ⁹⁴Tc / ⁹²Nb, E=19-33 MeV; ⁸⁹Y(¹²C, xn)⁹⁹Rh / ⁹⁸Rh / ⁹⁷Rh / ⁹⁶Tc / ⁹⁵Tc, E=32-47 MeV; ⁹³Nb(α , xn)⁹⁶Tc / ⁹⁵Tc, E=10-17 MeV; measured E γ , I γ , complete and incomplete fusion σ (E), excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608

A=93

⁹³Kr 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -, (x ray)- γ coin, half-lives by γ (t) using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

⁹³Rb 2010SI17 NUCLEAR REACTIONS ²³⁵U(n, F)⁹³Rb / ⁹⁵Rb; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin, and half-lives using FIFI fragment identification system and Ge detector array. ^{93,95}Rb; deduced levels, J, π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. JOUR PRVCA 82 024302

 2010SI17 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma$ (θ), and half-lives using EUROGAM-II and Gammasphere arrays. ^{91,93,95}Rb; deduced levels, J, π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in ^{89,91,93,95}Rb. ⁹³Rb, ⁹⁵Y; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302

⁹³Nb 2010F010 NUCLEAR REACTIONS ¹⁷³Yb(²⁴Mg, X), E=134.5 MeV; ¹⁷⁶Yb(²³Na, X), E=129 MeV; measured E γ , I γ , $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. ^{96,97}Nb; deduced levels, J, π , high-spin states. Comparison with level systematics of ^{95,96}Zr. Systematics of first 2+ states in N=48-58, even-A Zr nuclei; first 13 / 2+ states in A=89-97 Nb nuclei, and low-spin states in ⁸⁷Nb and ¹⁰¹Nb. ^{93,94,95}Nb, ^{117,118,119}Sn; measured E γ , I γ . JOUR PRVCA 82 044306

 2010OR01 NUCLEAR REACTIONS ⁹³Nb(n, n' γ), E=1.5-3 MeV; ⁹²Zr(p, 2n γ), E=11.5-19 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, γ (θ), $\gamma\gamma$ (θ), level half-lives by DSAM. ⁹³Nb; deduced levels, J, π , multipolarity, mixing ratios, configurations, B(M1), B(E2), One-phonon isoscalar and isovector excitations. Comparison with shell-model calculations. JOUR PRVCA 82 044317

A=94

⁹⁴Sr 2010HE16 NUCLEAR REACTIONS ⁴⁰Ca(⁴⁰Ca, 2p), ⁴⁸Ca(⁴⁸Ca, 2p), E=80 MeV / nucleon; measured E_p, I_p(θ), pp-coin, Z(particle), A(particle), particle multiplicity, total transverse energy; deduced pp correlation function, emitting source size. JOUR NUPAB 834 552c

KEYNUMBERS AND KEYWORDS

A=94 (continued)

^{94}Zr	2008ELZV	NUCLEAR REACTIONS $^{94}\text{Zr}(n, n'\gamma)$, $E=2.3\text{-}5$ MeV; measured $E\gamma$, $I\gamma(\theta)$, $\gamma\gamma$ -coin; deduced levels, J , π , mixed-symmetry states, $B(E2)$, $B(M1)$, mixing ratio; calculated levels. Compared to data. Results on CD only. CONF E.Lansing (NS2008),P100,Elhami
^{94}Nb	2010F010	NUCLEAR REACTIONS $^{173}\text{Yb}(^{24}\text{Mg}, X)$, $E=134.5$ MeV; $^{176}\text{Yb}(^{23}\text{Na}, X)$, $E=129$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. $^{96,97}\text{Nb}$; deduced levels, J , π , high-spin states. Comparison with level systematics of $^{95,96}\text{Zr}$. Systematics of first $2+$ states in $N=48\text{-}58$, even- A Zr nuclei; first $13 / 2+$ states in $A=89\text{-}97$ Nb nuclei, and low-spin states in ^{87}Nb and ^{101}Nb . $^{93,94,95}\text{Nb}$, $^{117,118,119}\text{Sn}$; measured $E\gamma$, $I\gamma$. JOUR PRVCA 82 044306
^{94}Tc	2010PA30	NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, xn)^{96}\text{Tc} / ^{95}\text{Tc} / ^{94}\text{Tc} / ^{92}\text{Nb}$, $E=19\text{-}33$ MeV; $^{89}\text{Y}(^{12}\text{C}, xn)^{99}\text{Rh} / ^{98}\text{Rh} / ^{97}\text{Rh} / ^{96}\text{Tc} / ^{95}\text{Tc}$, $E=32\text{-}47$ MeV; $^{93}\text{Nb}(\alpha, xn)^{96}\text{Tc} / ^{95}\text{Tc}$, $E=10\text{-}17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608

A=95

^{95}Rb	2008FOZS	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, X)$, $E=80$ MeV / nucleon; measured thick target $E(\text{particle})$, $I(\text{particle})$, $A(\text{particle})$, $Z(\text{particle})$, $E\gamma$, $I\gamma$, (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden
	2010SI17	NUCLEAR REACTIONS $^{235}\text{U}(n, F)^{93}\text{Rb} / ^{95}\text{Rb}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (fragment) γ -coin, and half-lives using FIFI fragment identification system and Ge detector array. $^{93,95}\text{Rb}$; deduced levels, J , π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. JOUR PRVCA 82 024302
	2010SI17	RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, and half-lives using EUROGAM-II and Gammasphere arrays. $^{91,93,95}\text{Rb}$; deduced levels, J , π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in $^{89,91,93,95}\text{Rb}$. ^{93}Rb , ^{95}Y ; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302
^{95}Y	2010SI17	RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, and half-lives using EUROGAM-II and Gammasphere arrays. $^{91,93,95}\text{Rb}$; deduced levels, J , π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in $^{89,91,93,95}\text{Rb}$. ^{93}Rb , ^{95}Y ; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302
^{95}Zr	2010CH41	NUCLEAR REACTIONS $^{239}\text{Pu}(n, F)^{99}\text{Mo} / ^{95}\text{Zr} / ^{140}\text{Ba} / ^{144}\text{Ce} / ^{147}\text{Nd}$, $E=0.2\text{-}2$ MeV; measured fission products; deduced fission product yields and its energy dependence. Comparison with ENDF / B-VII.0 library, LANL-ILRR measurements. JOUR NDSBA 111 2923

KEYNUMBERS AND KEYWORDS

A=95 (continued)

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| 2010SE15 | | NUCLEAR REACTIONS $^{235,238}\text{U}$, $^{239}\text{Pu}(n, F)^{99}\text{Mo}$ / ^{95}Zr / ^{137}Cs / ^{140}Ba / $^{141,143}\text{Ce}$ / ^{147}Nd , $E=0.4\text{-}1.9$ MeV; measured fission products; deduced fission product yields. Comparison with ENDF / B-VII.0 library, BIG TEN critical assembly. JOUR NDSBA 111 2891 |
| ^{95}Nb | 2010F010 | NUCLEAR REACTIONS $^{173}\text{Yb}(^{24}\text{Mg}, X)$, $E=134.5$ MeV; $^{176}\text{Yb}(^{23}\text{Na}, X)$, $E=129$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. $^{96,97}\text{Nb}$; deduced levels, J , π , high-spin states. Comparison with level systematics of $^{95,96}\text{Zr}$. Systematics of first $2+$ states in $N=48\text{-}58$, even- A Zr nuclei; first $13 / 2+$ states in $A=89\text{-}97$ Nb nuclei, and low-spin states in ^{87}Nb and ^{101}Nb . $^{93,94,95}\text{Nb}$, $^{117,118,119}\text{Sn}$; measured $E\gamma$, $I\gamma$. JOUR PRVCA 82 044306 |
| ^{95}Tc | 2010PA30 | NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, xn)^{96}\text{Tc}$ / ^{95}Tc / ^{94}Tc / ^{92}Nb , $E=19\text{-}33$ MeV; $^{89}\text{Y}(^{12}\text{C}, xn)^{99}\text{Rh}$ / ^{98}Rh / ^{97}Rh / ^{96}Tc / ^{95}Tc , $E=32\text{-}47$ MeV; $^{93}\text{Nb}(\alpha, xn)^{96}\text{Tc}$ / ^{95}Tc , $E=10\text{-}17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608 |

A=96

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| ^{96}Y | 2010BA31 | NUCLEAR REACTIONS $\text{U}(p, F)^{89}\text{Y}$ / ^{96}Y / ^{98}Y / ^{99}Y / ^{100}Y , $E=30$ MeV; measured hyperfine resonance fluorescence spectra; deduced isotope shifts, hyperfine parameters, nuclear spin and prolate shape. JOUR JPGPE 37 105103 |
| | 2010HW03 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ^{93}Kr , $^{151,153}\text{Pr}$, ^{157}Sm ; deduced levels, J , π , bands, configurations, conversion coefficients, $B(E1) / B(E2)$ ratios. $^{96,97,98,99}\text{Y}$, $^{149,150}\text{Pr}$; measured $E\gamma$. JOUR PRVCA 82 034308 |
| | 2010ZH36 | NUCLEAR REACTIONS $^{48}\text{Ca}(^{48}\text{Ca}, \pi^+)$, $(^{48}\text{Ca}, \pi^-)$, $^{124}\text{Sn}(^{124}\text{Sn}, \pi^+)$, $(^{124}\text{Sn}, \pi^-)$, $^{197}\text{Au}(^{197}\text{Au}, \pi^+)$, $(^{197}\text{Au}, \pi^-)$, $E=0.25\text{-}0.6$ GeV / nucleon; measured pion production yield ratios; deduced radii, symmetry energy. Comparison with isobar model. JOUR NUPAB 834 567c |
| ^{96}Zr | 2009DA25 | RADIOACTIVITY ^{48}Ca , ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , ^{130}Te , $^{150}\text{Nd}(2\beta)$; measured $T_{1/2}$ for zero / two-neutrino 2β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c |
| ^{96}Nb | 2010F010 | NUCLEAR REACTIONS $^{173}\text{Yb}(^{24}\text{Mg}, X)$, $E=134.5$ MeV; $^{176}\text{Yb}(^{23}\text{Na}, X)$, $E=129$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. $^{96,97}\text{Nb}$; deduced levels, J , π , high-spin states. Comparison with level systematics of $^{95,96}\text{Zr}$. Systematics of first $2+$ states in $N=48\text{-}58$, even- A Zr nuclei; first $13 / 2+$ states in $A=89\text{-}97$ Nb nuclei, and low-spin states in ^{87}Nb and ^{101}Nb . $^{93,94,95}\text{Nb}$, $^{117,118,119}\text{Sn}$; measured $E\gamma$, $I\gamma$. JOUR PRVCA 82 044306 |

KEYNUMBERS AND KEYWORDS

A=96 (continued)

- 2010ZH36 NUCLEAR REACTIONS $^{48}\text{Ca}(^{48}\text{Ca}, \pi^+)$, $(^{48}\text{Ca}, \pi^-)$, $^{124}\text{Sn}(^{124}\text{Sn}, \pi^+)$, $(^{124}\text{Sn}, \pi^-)$, $^{197}\text{Au}(^{197}\text{Au}, \pi^+)$, $(^{197}\text{Au}, \pi^-)$, $E=0.25\text{-}0.6$ GeV / nucleon; measured pion production yield ratios; deduced radii, symmetry energy. Comparison with isobar model. JOUR NUPAB 834 567c
- ^{96}Tc 2010PA30 NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc} / ^{94}\text{Tc} / ^{92}\text{Nb}$, $E=19\text{-}33$ MeV; $^{89}\text{Y}(^{12}\text{C}, \text{xn})^{99}\text{Rh} / ^{98}\text{Rh} / ^{97}\text{Rh} / ^{96}\text{Tc} / ^{95}\text{Tc}$, $E=32\text{-}47$ MeV; $^{93}\text{Nb}(\alpha, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc}$, $E=10\text{-}17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608

A=97

- ^{97}Y 2010HW03 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ^{93}Kr , $^{151,153}\text{Pr}$, ^{157}Sm ; deduced levels, J, π , bands, configurations, conversion coefficients, $B(E1) / B(E2)$ ratios. $^{96,97,98,99}\text{Y}$, $^{149,150}\text{Pr}$; measured $E\gamma$. JOUR PRVCA 82 034308
- ^{97}Nb 2010F010 NUCLEAR REACTIONS $^{173}\text{Yb}(^{24}\text{Mg}, \text{X})$, $E=134.5$ MeV; $^{176}\text{Yb}(^{23}\text{Na}, \text{X})$, $E=129$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. $^{96,97}\text{Nb}$; deduced levels, J, π , high-spin states. Comparison with level systematics of $^{95,96}\text{Zr}$. Systematics of first $2+$ states in $N=48\text{-}58$, even-A Zr nuclei; first $13 / 2+$ states in $A=89\text{-}97$ Nb nuclei, and low-spin states in ^{87}Nb and ^{101}Nb . $^{93,94,95}\text{Nb}$, $^{117,118,119}\text{Sn}$; measured $E\gamma$, $I\gamma$. JOUR PRVCA 82 044306
- 2011TA01 NUCLEAR REACTIONS $^{27}\text{Al}(d, \text{X})^{24}\text{Na}$, $^{100}\text{Mo}(d, \text{X})^{99}\text{Tc} / ^{99}\text{Mo} / ^{98}\text{Nb} / ^{97}\text{Nb}$, $E<50$ MeV; measured $E\gamma$, $I\gamma$; deduced σ and their uncertainties. Comparison with with ALICE-D, EMPIRE-D and TALYS codes. JOUR ARISE 69 18
- ^{97}Rh 2010PA30 NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc} / ^{94}\text{Tc} / ^{92}\text{Nb}$, $E=19\text{-}33$ MeV; $^{89}\text{Y}(^{12}\text{C}, \text{xn})^{99}\text{Rh} / ^{98}\text{Rh} / ^{97}\text{Rh} / ^{96}\text{Tc} / ^{95}\text{Tc}$, $E=32\text{-}47$ MeV; $^{93}\text{Nb}(\alpha, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc}$, $E=10\text{-}17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608

A=98

- ^{98}Rb 2008FOZS NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, $E=80$ MeV / nucleon; measured thick target $E(\text{particle})$, $I(\text{particle})$, $A(\text{particle})$, $Z(\text{particle})$, $E\gamma$, $I\gamma$, (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden

KEYNUMBERS AND KEYWORDS

A=98 (continued)

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| ^{98}Y | 2010BA31 | NUCLEAR REACTIONS $\text{U}(\text{p}, \text{F})^{89}\text{Y} / ^{96}\text{Y} / ^{98}\text{Y} / ^{99}\text{Y} / ^{100}\text{Y}$, $E=30$ MeV; measured hyperfine resonance fluorescence spectra; deduced isotope shifts, hyperfine parameters, nuclear spin and prolate shape. JOUR JPGPE 37 105103 |
| | 2010BE30 | RADIOACTIVITY $^{98}\text{Y}(\beta^-)$ [from $^{238}\text{U}(\text{n}, \gamma)$, $E=\text{thermal}$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\beta\beta(t)$, and level half-lives. ^{98}Zr ; deduced levels, J , π , $B(E2)$. Comparison of $B(E2)$ strengths in $^{94,96,98}\text{Zr}$ nuclei with IBM calculations. JOUR PRVCA 82 044310 |
| | 2010HW03 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma^-$, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ^{93}Kr , $^{151,153}\text{Pr}$, ^{157}Sm ; deduced levels, J , π , bands, configurations, conversion coefficients, $B(E1) / B(E2)$ ratios. $^{96,97,98,99}\text{Y}$, $^{149,150}\text{Pr}$; measured $E\gamma$. JOUR PRVCA 82 034308 |
| ^{98}Zr | 2010BE30 | RADIOACTIVITY $^{98}\text{Y}(\beta^-)$ [from $^{238}\text{U}(\text{n}, \gamma)$, $E=\text{thermal}$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\beta\beta(t)$, and level half-lives. ^{98}Zr ; deduced levels, J , π , $B(E2)$. Comparison of $B(E2)$ strengths in $^{94,96,98}\text{Zr}$ nuclei with IBM calculations. JOUR PRVCA 82 044310 |
| ^{98}Nb | 2011TA01 | NUCLEAR REACTIONS $^{27}\text{Al}(\text{d}, \text{X})^{24}\text{Na}$, $^{100}\text{Mo}(\text{d}, \text{X})^{99}\text{Tc} / ^{99}\text{Mo} / ^{98}\text{Nb} / ^{97}\text{Nb}$, $E<50$ MeV; measured $E\gamma$, $I\gamma$; deduced σ and their uncertainties. Comparison with with ALICE-D, EMPIRE-D and TALYS codes. JOUR ARISE 69 18 |
| ^{98}Mo | 2009RUZW | NUCLEAR REACTIONS $^{98}\text{Mo}(\gamma, \gamma')$, $E=4.8-8.4$ MeV; measured $E\gamma$, $I\gamma$; deduced σ , branching gamma ratios. REPT TUNL-XLVIII,P91,Rusev |
| ^{98}Rh | 2010PA30 | NUCLEAR REACTIONS $^{89}\text{Y}(\text{}^9\text{Be}, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc} / ^{94}\text{Tc} / ^{92}\text{Nb}$, $E=19-33$ MeV; $^{89}\text{Y}(\text{}^{12}\text{C}, \text{xn})^{99}\text{Rh} / ^{98}\text{Rh} / ^{97}\text{Rh} / ^{96}\text{Tc} / ^{95}\text{Tc}$, $E=32-47$ MeV; $^{93}\text{Nb}(\alpha, \text{xn})^{96}\text{Tc} / ^{95}\text{Tc}$, $E=10-17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608 |

A=99

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| ^{99}Y | 2010BA31 | NUCLEAR REACTIONS $\text{U}(\text{p}, \text{F})^{89}\text{Y} / ^{96}\text{Y} / ^{98}\text{Y} / ^{99}\text{Y} / ^{100}\text{Y}$, $E=30$ MeV; measured hyperfine resonance fluorescence spectra; deduced isotope shifts, hyperfine parameters, nuclear spin and prolate shape. JOUR JPGPE 37 105103 |
| | 2010HW03 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma^-$, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ^{93}Kr , $^{151,153}\text{Pr}$, ^{157}Sm ; deduced levels, J , π , bands, configurations, conversion coefficients, $B(E1) / B(E2)$ ratios. $^{96,97,98,99}\text{Y}$, $^{149,150}\text{Pr}$; measured $E\gamma$. JOUR PRVCA 82 034308 |
| ^{99}Mo | 2010CH41 | NUCLEAR REACTIONS $^{239}\text{Pu}(\text{n}, \text{F})^{99}\text{Mo} / ^{95}\text{Zr} / ^{140}\text{Ba} / ^{144}\text{Ce} / ^{147}\text{Nd}$, $E=0.2-2$ MeV; measured fission products; deduced fission product yields and its energy dependence. Comparison with ENDF / B-VII.0 library, LANL-ILRR measurements. JOUR NDSBA 111 2923 |

KEYNUMBERS AND KEYWORDS

A=99 (continued)

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| 2010SE15 | | NUCLEAR REACTIONS $^{235,238}\text{U}$, $^{239}\text{Pu}(n, F)^{99}\text{Mo}$ / ^{95}Zr / ^{137}Cs / ^{140}Ba / $^{141,143}\text{Ce}$ / ^{147}Nd , $E=0.4-1.9$ MeV; measured fission products; deduced fission product yields. Comparison with ENDF / B-VII.0 library, BIG TEN critical assembly. JOUR NDSBA 111 2891 |
| 2011TA01 | | NUCLEAR REACTIONS $^{27}\text{Al}(d, X)^{24}\text{Na}$, $^{100}\text{Mo}(d, X)^{99}\text{Tc}$ / ^{99}Mo / ^{98}Nb / ^{97}Nb , $E<50$ MeV; measured $E\gamma$, $I\gamma$; deduced σ and their uncertainties. Comparison with with ALICE-D, EMPIRE-D and TALYS codes. JOUR ARISE 69 18 |
| ^{99}Tc | 2011TA01 | NUCLEAR REACTIONS $^{27}\text{Al}(d, X)^{24}\text{Na}$, $^{100}\text{Mo}(d, X)^{99}\text{Tc}$ / ^{99}Mo / ^{98}Nb / ^{97}Nb , $E<50$ MeV; measured $E\gamma$, $I\gamma$; deduced σ and their uncertainties. Comparison with with ALICE-D, EMPIRE-D and TALYS codes. JOUR ARISE 69 18 |
| ^{99}Rh | 2010PA30 | NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, xn)^{96}\text{Tc}$ / ^{95}Tc / ^{94}Tc / ^{92}Nb , $E=19-33$ MeV; $^{89}\text{Y}(^{12}\text{C}, xn)^{99}\text{Rh}$ / ^{98}Rh / ^{97}Rh / ^{96}Tc / ^{95}Tc , $E=32-47$ MeV; $^{93}\text{Nb}(\alpha, xn)^{96}\text{Tc}$ / ^{95}Tc , $E=10-17$ MeV; measured $E\gamma$, $I\gamma$, complete and incomplete fusion $\sigma(E)$, excitation functions deduced barrier distributions and breakup effects. Coupled-channel (CC) calculations. JOUR PRVCA 82 044608 |

A=100

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| ^{100}Y | 2010BA31 | NUCLEAR REACTIONS $\text{U}(p, F)^{89}\text{Y}$ / ^{96}Y / ^{98}Y / ^{99}Y / ^{100}Y , $E=30$ MeV; measured hyperfine resonance fluorescence spectra; deduced isotope shifts, hyperfine parameters, nuclear spin and prolate shape. JOUR JPGPE 37 105103 |
| | 2010BR15 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, F)^{100}\text{Y}$ / ^{101}Y / ^{102}Y / ^{103}Y / ^{104}Y / ^{103}Zr / ^{104}Zr / ^{105}Zr / ^{106}Zr / ^{107}Zr / ^{105}Nb / ^{106}Nb / ^{107}Nb / ^{108}Nb / ^{109}Nb / ^{108}Mo / ^{109}Mo / ^{110}Mo / ^{111}Mo / ^{112}Mo / ^{110}Tc / ^{111}Tc / ^{112}Tc / ^{113}Tc / ^{114}Tc / $E=11.4, 750$ MeV / nucleon; measured energy loss time-of-flight, yields. JOUR PRVCA 82 044312 |
| ^{100}Mo | 2009DA25 | RADIOACTIVITY ^{48}Ca , ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , ^{130}Te , $^{150}\text{Nd}(2\beta)$; measured $T_{1/2}$ for zero / two-neutrino 2β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c |

A=101

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| ^{101}Y | 2008FOZS | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, X)$, $E=80$ MeV / nucleon; measured thick target $E(\text{particle})$, $I(\text{particle})$, $A(\text{particle})$, $Z(\text{particle})$, $E\gamma$, $I\gamma$, (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden |
| | 2010BR15 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, F)^{100}\text{Y}$ / ^{101}Y / ^{102}Y / ^{103}Y / ^{104}Y / ^{103}Zr / ^{104}Zr / ^{105}Zr / ^{106}Zr / ^{107}Zr / ^{105}Nb / ^{106}Nb / ^{107}Nb / ^{108}Nb / ^{109}Nb / ^{108}Mo / ^{109}Mo / ^{110}Mo / ^{111}Mo / ^{112}Mo / ^{110}Tc / ^{111}Tc / ^{112}Tc / ^{113}Tc / ^{114}Tc / $E=11.4, 750$ MeV / nucleon; measured energy loss time-of-flight, yields. JOUR PRVCA 82 044312 |

KEYNUMBERS AND KEYWORDS

A=101 (continued)

^{101}Nb	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured E_γ , I_γ , mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{101}Mo	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured E_γ , I_γ , mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{101}Pd	2010ZH40	NUCLEAR REACTIONS $^{76}\text{Ge}(^{28}\text{Si}, 3n\gamma)^{101}\text{Pd}$, E not given; measured reaction products, E_γ , I_γ , γ - γ -coin.; deduced high-spin states, yrast bands, J, π , level scheme. JOUR CPCHC 34 1598
^{101}Sn	2010DA17	RADIOACTIVITY ^{109}Xe , $^{105}\text{Te}(\alpha)$; measured I_α , E_α , I_γ , I_γ ; deduced J, π for ground and first excited states in ^{101}Sn , ground state spin inversion, strong pairing interaction. Comparison with shell model calculations. JOUR PRLTA 105 162502

A=102

^{102}Y	2010BR15	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{F})^{100}\text{Y} / ^{101}\text{Y} / ^{102}\text{Y} / ^{103}\text{Y} / ^{104}\text{Y} / ^{103}\text{Zr} / ^{104}\text{Zr} / ^{105}\text{Zr} / ^{106}\text{Zr} / ^{107}\text{Zr} / ^{105}\text{Nb} / ^{106}\text{Nb} / ^{107}\text{Nb} / ^{108}\text{Nb} / ^{109}\text{Nb} / ^{108}\text{Mo} / ^{109}\text{Mo} / ^{110}\text{Mo} / ^{111}\text{Mo} / ^{112}\text{Mo} / ^{110}\text{Tc} / ^{111}\text{Tc} / ^{112}\text{Tc} / ^{113}\text{Tc} / ^{114}\text{Tc} / \text{E}=11.4, 750 \text{ MeV} / \text{nucleon}$; measured energy loss time-of-flight, yields. JOUR PRVCA 82 044312
^{102}Tc	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured E_γ , I_γ , mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{102}Ru	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured E_γ , I_γ , mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501

A=103

^{103}Y	2010BR15	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{F})^{100}\text{Y} / ^{101}\text{Y} / ^{102}\text{Y} / ^{103}\text{Y} / ^{104}\text{Y} / ^{103}\text{Zr} / ^{104}\text{Zr} / ^{105}\text{Zr} / ^{106}\text{Zr} / ^{107}\text{Zr} / ^{105}\text{Nb} / ^{106}\text{Nb} / ^{107}\text{Nb} / ^{108}\text{Nb} / ^{109}\text{Nb} / ^{108}\text{Mo} / ^{109}\text{Mo} / ^{110}\text{Mo} / ^{111}\text{Mo} / ^{112}\text{Mo} / ^{110}\text{Tc} / ^{111}\text{Tc} / ^{112}\text{Tc} / ^{113}\text{Tc} / ^{114}\text{Tc} / \text{E}=11.4, 750 \text{ MeV} / \text{nucleon}$; measured energy loss time-of-flight, yields. JOUR PRVCA 82 044312
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A=104

^{104}Y	2010BR15	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{F})^{100}\text{Y} / ^{101}\text{Y} / ^{102}\text{Y} / ^{103}\text{Y} / ^{104}\text{Y} / ^{103}\text{Zr} / ^{104}\text{Zr} / ^{105}\text{Zr} / ^{106}\text{Zr} / ^{107}\text{Zr} / ^{105}\text{Nb} / ^{106}\text{Nb} / ^{107}\text{Nb} / ^{108}\text{Nb} / ^{109}\text{Nb} / ^{108}\text{Mo} / ^{109}\text{Mo} / ^{110}\text{Mo} / ^{111}\text{Mo} / ^{112}\text{Mo} / ^{110}\text{Tc} / ^{111}\text{Tc} / ^{112}\text{Tc} / ^{113}\text{Tc} / ^{114}\text{Tc} / E=11.4, 750 \text{ MeV} / \text{nucleon}; \text{measured energy loss time-of-flight, yields. JOUR PRVCA 82 044312}$
^{104}Zr	2010YE08	RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. ^{104}Zr ; deduced levels, J, π , bands, yrast structure, configurations. Comparison with projected shell model (PSM) calculations. JOUR PRVCA 82 027302
^{104}Mo	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{104}Tc	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{104}Ru	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501

A=105

^{105}Mo	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{105}Tc	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{105}Ru	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{105}Te	2010DA17	RADIOACTIVITY ^{109}Xe , $^{105}\text{Te}(\alpha)$; measured $I\alpha$, $E\alpha$, $I\gamma$, $I\gamma$; deduced J, π for ground and first excited states in ^{101}Sn , ground state spin inversion, strong pairing interaction. Comparison with shell model calculations. JOUR PRLTA 105 162502

A=106

^{106}Mo	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{106}Tc	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{106}Ru	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{106}Rh	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{106}In	2010EK01	NUCLEAR REACTIONS $^{58}\text{Ni}(^{106}\text{In}, ^{106}\text{In}')$, $(^{108}\text{In}, ^{108}\text{In}')$, E=2.8 MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin following Coulomb excitation at the REX-ISOLDE facility. $^{106,108}\text{In}$; deduced levels, J, π , B(E2); calculated low-lying level properties, E2, M1 matrix elements using shell model plus coupled channels. JOUR ZAANE 44 355

A=107

^{107}Tc	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501
^{107}Ru	2010AL22	RADIOACTIVITY ^{101}Nb , ^{105}Mo , $^{102,104,105,106,107}\text{Tc}(\beta^-)$ [from U(p, X), E=30, 50 MeV]; measured $E\gamma$, $I\gamma$, mass; deduced β -feeding probabilities, discrepancies for decay heat of ^{239}Pu . JOUR PRLTA 105 202501

A=108

^{108}Mo	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{108}Tc	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

KEYNUMBERS AND KEYWORDS

A=108 (continued)

^{108}Ru	2008G0Z0	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{108}Rh	2008G0Z0	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{108}In	2010EK01	NUCLEAR REACTIONS $^{58}\text{Ni}(^{106}\text{In}, ^{106}\text{In}')$, $(^{108}\text{In}, ^{108}\text{In}')$, $E=2.8$ MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin following Coulomb excitation at the REX-ISOLDE facility. $^{106,108}\text{In}$; deduced levels, J, π , B(E2); calculated low-lying level properties, E2, M1 matrix elements using shell model plus coupled channels. JOUR ZAANE 44 355

A=109

^{109}Xe	2010DA17	RADIOACTIVITY ^{109}Xe , $^{105}\text{Te}(\alpha)$; measured $I\alpha$, $E\alpha$, $I\gamma$, $I\gamma$; deduced J, π for ground and first excited states in ^{101}Sn , ground state spin inversion, strong pairing interaction. Comparison with shell model calculations. JOUR PRLTA 105 162502
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A=110

^{110}Ru	2008G0Z0	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{110}Rh	2008G0Z0	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

A=111

^{111}In	2011TA02	NUCLEAR REACTIONS $^{27}\text{Al}(d, X)^{22}\text{Na} / ^{24}\text{Na}$, $\text{Ti}(d, X)^{48}\text{V}$, $\text{In}(d, X)^{113}\text{Sn} / ^{111}\text{In} / ^{113}\text{In} / ^{114}\text{In} / ^{115}\text{In} / ^{116}\text{In} / ^{111}\text{Cd} / ^{115}\text{Cd}$, $E < 40$ MeV; measured $E\gamma$, $I\gamma$; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26
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A=112

^{112}Tc	2008FOZS	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, X)$, $E=80$ MeV / nucleon; measured thick target $E(\text{particle})$, $I(\text{particle})$, $A(\text{particle})$, $Z(\text{particle})$, $E\gamma$, $I\gamma$, (particle) γ -coin. ^{60}Mn , ^{78}Ga , ^{82}Ga , ^{92}Br , ^{95}Rb , ^{98}Rb , ^{92}Y , ^{101}Y , ^{112}Tc deduced isomeric transition, $T_{1/2}$, isomer ratio. Results on CD only. CONF E.Lansing (NS2008),P104,Folden
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KEYNUMBERS AND KEYWORDS

A=112 (continued)

	2010BR15	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{F})$, $E=11.4$, 750 MeV / nucleon; measured $E\gamma$, $I\gamma$, (fragment) γ -, $\gamma\gamma$ -coin, $\gamma\gamma(t)$, energy loss and time-of-flight, isomer half-lives. $^{112,113}\text{Tc}$; deduced levels, J, π , oblate and triaxial structures. Comparison with Potential energy surface (PES) calculations. JOUR PRVCA 82 044312
^{112}Ru	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{112}Rh	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{112}Pd	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{112}Ag	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

A=113

^{113}Tc	2010BR15	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{F})$, $E=11.4$, 750 MeV / nucleon; measured $E\gamma$, $I\gamma$, (fragment) γ -, $\gamma\gamma$ -coin, $\gamma\gamma(t)$, energy loss and time-of-flight, isomer half-lives. $^{112,113}\text{Tc}$; deduced levels, J, π , oblate and triaxial structures. Comparison with Potential energy surface (PES) calculations. JOUR PRVCA 82 044312
^{113}In	2011TA02	NUCLEAR REACTIONS $^{27}\text{Al}(d, X)^{22}\text{Na} / ^{24}\text{Na}$, $\text{Ti}(d, X)^{48}\text{V}$, $\text{In}(d, X)^{113}\text{Sn} / ^{111}\text{In} / ^{113}\text{In} / ^{114}\text{In} / ^{115}\text{In} / ^{116}\text{In} / ^{111}\text{Cd} / ^{115}\text{Cd}$, $E < 40$ MeV; measured $E\gamma$, $I\gamma$; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26
^{113}Sn	2011TA02	NUCLEAR REACTIONS $^{27}\text{Al}(d, X)^{22}\text{Na} / ^{24}\text{Na}$, $\text{Ti}(d, X)^{48}\text{V}$, $\text{In}(d, X)^{113}\text{Sn} / ^{111}\text{In} / ^{113}\text{In} / ^{114}\text{In} / ^{115}\text{In} / ^{116}\text{In} / ^{111}\text{Cd} / ^{115}\text{Cd}$, $E < 40$ MeV; measured $E\gamma$, $I\gamma$; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26

A=114

^{114}Pd	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin
^{114}Ag	2008GOZO	RADIOACTIVITY $^{104,106,108}\text{Mo}$, $^{106,108,110,112}\text{Ru}$, $^{112,114,116}\text{Pd}(\beta^-)$ [from fission]; measured $E\gamma$, $I\gamma$; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

KEYNUMBERS AND KEYWORDS

A=114 (continued)

¹¹⁴In 2011TA02 NUCLEAR REACTIONS ²⁷Al(d, X)²²Na / ²⁴Na, Ti(d, X)⁴⁸V, In(d, X)¹¹³Sn / ¹¹¹In / ¹¹³In / ¹¹⁴In / / ¹¹⁵In / ¹¹⁶In / ¹¹¹Cd / ¹¹⁵Cd, E<40 MeV; measured E γ , I γ ; deduced thick target yields, σ . Comparison with experimental data, ALICE-D and EMPIRE-D codes. JOUR ARISE 69 26

A=115

¹¹⁵Ru 2010AY07 RADIOACTIVITY ¹¹⁵Ru(β^-); measured E γ , I γ . ¹¹⁵Rh; deduced levels, J, π . Discusses Penning trap experimental possibilities. JOUR NUPAB 834 724c

¹¹⁵Rh 2010AY07 RADIOACTIVITY ¹¹⁵Ru(β^-); measured E γ , I γ . ¹¹⁵Rh; deduced levels, J, π . Discusses Penning trap experimental possibilities. JOUR NUPAB 834 724c

 2010KU19 RADIOACTIVITY ¹¹⁵Rh(β^-); measured E γ , I γ , $\gamma\gamma$ -coin. ¹¹⁵Pd; deduced levels, J, π . Systematics of low-lying states in odd-A Mo, Ru and Pd nuclei from N=61-71. JOUR PRVCA 82 027306

¹¹⁵Pd 2010KU19 RADIOACTIVITY ¹¹⁵Rh(β^-); measured E γ , I γ , $\gamma\gamma$ -coin. ¹¹⁵Pd; deduced levels, J, π . Systematics of low-lying states in odd-A Mo, Ru and Pd nuclei from N=61-71. JOUR PRVCA 82 027306

A=116

¹¹⁶Pd 2008G0Z0 RADIOACTIVITY ^{104,106,108}Mo, ^{106,108,110,112}Ru, ^{112,114,116}Pd(β^-) [from fission]; measured E γ , I γ ; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

¹¹⁶Ag 2008G0Z0 RADIOACTIVITY ^{104,106,108}Mo, ^{106,108,110,112}Ru, ^{112,114,116}Pd(β^-) [from fission]; measured E γ , I γ ; deduced mixing ratio, g-factor. Abstract only. CONF E.Lansing (NS2008),P106,Goodin

¹¹⁶Cd 2009DA25 RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd(2β); measured T_{1/2} for zero / two-neutrino 2β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c

A=117

¹¹⁷Sn 2010F010 NUCLEAR REACTIONS ¹⁷³Yb(²⁴Mg, X), E=134.5 MeV; ¹⁷⁶Yb(²³Na, X), E=129 MeV; measured E γ , I γ , $\gamma\gamma$ -coin following fission of compound nuclei using Gammasphere array. ^{96,97}Nb; deduced levels, J, π , high-spin states. Comparison with level systematics of ^{95,96}Zr. Systematics of first 2+ states in N=48-58, even-A Zr nuclei; first 13 / 2+ states in A=89-97 Nb nuclei, and low-spin states in ⁸⁷Nb and ¹⁰¹Nb. ^{93,94,95}Nb, ^{117,118,119}Sn; measured E γ , I γ . JOUR PRVCA 82 044306

KEYNUMBERS AND KEYWORDS

A=118

¹¹⁸Sn 2010F010 NUCLEAR REACTIONS ¹⁷³Yb(²⁴Mg, X), E=134.5 MeV; ¹⁷⁶Yb(²³Na, X), E=129 MeV; measured E_γ, I_γ, γγ-coin following fission of compound nuclei using Gammasphere array. ^{96,97}Nb; deduced levels, J, π, high-spin states. Comparison with level systematics of ^{95,96}Zr. Systematics of first 2+ states in N=48-58, even-A Zr nuclei; first 13 / 2+ states in A=89-97 Nb nuclei, and low-spin states in ⁸⁷Nb and ¹⁰¹Nb. ^{93,94,95}Nb, ^{117,118,119}Sn; measured E_γ, I_γ. JOUR PRVCA 82 044306

A=119

¹¹⁹Sn 2010F010 NUCLEAR REACTIONS ¹⁷³Yb(²⁴Mg, X), E=134.5 MeV; ¹⁷⁶Yb(²³Na, X), E=129 MeV; measured E_γ, I_γ, γγ-coin following fission of compound nuclei using Gammasphere array. ^{96,97}Nb; deduced levels, J, π, high-spin states. Comparison with level systematics of ^{95,96}Zr. Systematics of first 2+ states in N=48-58, even-A Zr nuclei; first 13 / 2+ states in A=89-97 Nb nuclei, and low-spin states in ⁸⁷Nb and ¹⁰¹Nb. ^{93,94,95}Nb, ^{117,118,119}Sn; measured E_γ, I_γ. JOUR PRVCA 82 044306

A=120

¹²⁰Sn 2010DE34 NUCLEAR REACTIONS ¹²⁰Sn(⁶He, ⁶He), (⁶He, X), E=17.4, 18.04, 19.8, 20.5 MeV, [⁶He beam from ⁹Be(⁷Li, ⁶He), E=2-26 MeV]; measured α and ⁶He spectra, σ(E, θ). DWBA analysis. Comparison with breakup and neutron transfer calculations using continuum-discretized coupled-channels (CDCC) approach. JOUR PRVCA 82 034602

A=121

No references found

A=122

¹²²Te 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

¹²²I 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

A=123

No references found

KEYNUMBERS AND KEYWORDS

A=124

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| ^{124}Sn | 2009KIZU | RADIOACTIVITY $^{124}\text{Sn}(2\beta^-)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced limits on $T_{1/2}$. REPT TUNL-XLVIII,P30,Kidd |
| | 2010EN01 | NUCLEAR REACTIONS $^{124}\text{Sn}(\alpha, \alpha')$, $E=136$ MeV; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, α - γ -coin.; deduced pigmy resonance $\sigma(\theta)$, $B(E1)$, two groups of states. Comparison with calculations. JOUR PRLTA 105 212503 |
| ^{124}Te | 2009KIZU | RADIOACTIVITY $^{124}\text{Sn}(2\beta^-)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced limits on $T_{1/2}$. REPT TUNL-XLVIII,P30,Kidd |

A=125

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| ^{125}Te | 2010WI10 | NUCLEAR REACTIONS $^{125}\text{Te}(\gamma, \gamma)$, E not given; measured X-rays, time spectra; deduced nuclear resonance energy and $T_{1/2}$. JOUR EULEE 91 62001 |
| ^{125}I | 2010SI21 | NUCLEAR REACTIONS $^{82}\text{Se}(^{48}\text{Ca}, 4np)$, $E=205$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma(\theta)$ ratios using Gammasphere array. ^{125}I ; deduced levels, J , π , bands, highly-deformed bands, multipolarities, and configurations. Comparison with cranked Nilsson-Strutinsky (CNS) calculations. JOUR PRVCA 82 034301 |

A=126

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| ^{126}Te | 2010BL06 | NUCLEAR REACTIONS $^{128,130}\text{Te}(p, t)$, $E=23$ MeV; measured triton spectra, $\sigma(\theta)$. $^{126,128}\text{Te}$; deduced levels, L-transfers. Split-pole magnetic spectrograph and gas-filled focal plane detector. Comparison with data for $^{128,130}\text{Te}(^3\text{He}, n)$ reactions. Relevance to calculation of the matrix element for neutrinoless double- β decay of ^{130}Te . JOUR PRVCA 82 027308 |
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A=127

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| ^{127}Cd | 2010NA17 | NUCLEAR REACTIONS $^9\text{Be}(^{136}\text{Xe}, X)$, $E=750$ MeV / nucleon; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and isomer half-life by $\gamma(t)$. ^{127}Cd ; deduced levels, J , π , multipolarity and transition strengths. Comparison with large-scale shell-model calculations. JOUR PRVCA 82 034323 |
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A=128

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| ^{128}Te | 2010BL06 | NUCLEAR REACTIONS $^{128,130}\text{Te}(p, t)$, $E=23$ MeV; measured triton spectra, $\sigma(\theta)$. $^{126,128}\text{Te}$; deduced levels, L-transfers. Split-pole magnetic spectrograph and gas-filled focal plane detector. Comparison with data for $^{128,130}\text{Te}(^3\text{He}, n)$ reactions. Relevance to calculation of the matrix element for neutrinoless double- β decay of ^{130}Te . JOUR PRVCA 82 027308 |
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KEYNUMBERS AND KEYWORDS

A=129

No references found

A=130

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| ¹³⁰ Te | 2009DA25 | RADIOACTIVITY ⁴⁸ Ca, ⁸² Se, ⁹⁶ Zr, ¹⁰⁰ Mo, ¹¹⁶ Cd, ¹³⁰ Te, ¹⁵⁰ Nd(2 β); measured T _{1/2} for zero / two-neutrino 2 β -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c |
| ¹³⁰ Xe | 2010C009 | NUCLEAR REACTIONS ¹² C(¹³⁰ Xe, ¹³⁰ Xe'), E=409 MeV; ¹² C(¹³² Xe, ¹³² Xe'), E=414 MeV; measured E γ , I γ , and σ using Gammasphere array. ¹³⁰ Xe, ¹³² Xe; deduced J, π , B(E2), B(M1), and one-phonon mixed symmetry 2+ states. Projectile Coulomb excitation. Systematics of level energies and B(M1) strengths of one-phonon mixed symmetry states in even-even ¹²⁴⁻¹³⁴ Xe nuclei. JOUR PRVCA 82 024317 |

A=131

No references found

A=132

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| ¹³² Xe | 2010C009 | NUCLEAR REACTIONS ¹² C(¹³⁰ Xe, ¹³⁰ Xe'), E=409 MeV; ¹² C(¹³² Xe, ¹³² Xe'), E=414 MeV; measured E γ , I γ , and σ using Gammasphere array. ¹³⁰ Xe, ¹³² Xe; deduced J, π , B(E2), B(M1), and one-phonon mixed symmetry 2+ states. Projectile Coulomb excitation. Systematics of level energies and B(M1) strengths of one-phonon mixed symmetry states in even-even ¹²⁴⁻¹³⁴ Xe nuclei. JOUR PRVCA 82 024317 |
| ¹³² Ce | 2008C0ZR | NUCLEAR REACTIONS ¹¹⁶ Sn(¹⁶ O, γ), E not given; measured E γ , I γ , $\gamma\gamma$ -coin; deduced γ multiplicity; calculated γ multiplicity using BNV (Boltzmann-Nordheim-Vlasov). Abstract only. CONF E.Lansing (NS2008),P89,Corsi |

A=133

No references found

A=134

No references found

KEYNUMBERS AND KEYWORDS

A=135

^{135}Te	2010GA26	NUCLEAR REACTIONS ^{232}Th , ^{238}U , ^{237}Np , ^{243}Am , $^{238}\text{Cm}(\gamma, \text{F})^{135}\text{Te} / ^{135}\text{I} / ^{135}\text{Xe}$, $E < 25$ MeV; measured fission products, $E\gamma$, $I\gamma$; deduced fission fragment yields; calculated charge distribution and probabilities for $A=137$. JOUR PPNLA 7 415
^{135}I	2010GA26	NUCLEAR REACTIONS ^{232}Th , ^{238}U , ^{237}Np , ^{243}Am , $^{238}\text{Cm}(\gamma, \text{F})^{135}\text{Te} / ^{135}\text{I} / ^{135}\text{Xe}$, $E < 25$ MeV; measured fission products, $E\gamma$, $I\gamma$; deduced fission fragment yields; calculated charge distribution and probabilities for $A=137$. JOUR PPNLA 7 415
^{135}Xe	2010GA26	NUCLEAR REACTIONS ^{232}Th , ^{238}U , ^{237}Np , ^{243}Am , $^{238}\text{Cm}(\gamma, \text{F})^{135}\text{Te} / ^{135}\text{I} / ^{135}\text{Xe}$, $E < 25$ MeV; measured fission products, $E\gamma$, $I\gamma$; deduced fission fragment yields; calculated charge distribution and probabilities for $A=137$. JOUR PPNLA 7 415

A=136

^{136}Xe	2010MC04	ATOMIC MASSES ^{136}Xe , ^{136}Ba ; measured mass difference using high-resolution, deflection-type mass spectrometer; deduced $Q_{2\beta}$ for ^{136}Xe decay. Comparison with previous studies and AME-2003. JOUR PRVCA 82 024603
	2010MC04	RADIOACTIVITY $^{136}\text{Xe}(2\beta^-)$; measured mass difference of ^{136}Xe and ^{136}Ba using high-resolution, deflection-type mass spectrometer; deduced Q value. Comparison with previous studies and AME-2003. JOUR PRVCA 82 024603
^{136}Ba	2010MC04	ATOMIC MASSES ^{136}Xe , ^{136}Ba ; measured mass difference using high-resolution, deflection-type mass spectrometer; deduced $Q_{2\beta}$ for ^{136}Xe decay. Comparison with previous studies and AME-2003. JOUR PRVCA 82 024603
	2010MC04	RADIOACTIVITY $^{136}\text{Xe}(2\beta^-)$; measured mass difference of ^{136}Xe and ^{136}Ba using high-resolution, deflection-type mass spectrometer; deduced Q value. Comparison with previous studies and AME-2003. JOUR PRVCA 82 024603

A=137

^{137}Cs	2010SE15	NUCLEAR REACTIONS $^{235,238}\text{U}$, $^{239}\text{Pu}(\text{n}, \text{F})^{99}\text{Mo} / ^{95}\text{Zr} / ^{137}\text{Cs} / ^{140}\text{Ba} / ^{141,143}\text{Ce} / ^{147}\text{Nd}$, $E=0.4-1.9$ MeV; measured fission products; deduced fission product yields. Comparison with ENDF / B-VII.0 library, BIG TEN critical assembly. JOUR NDSBA 111 2891
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A=138

No references found

KEYNUMBERS AND KEYWORDS

A=139

¹³⁹La 2010MA40 NUCLEAR REACTIONS ¹³⁹La(γ , γ'), E=2-10 MeV; measured E γ , I γ ; deduced levels, integrated cross section, branching ratios, partial widths, level densities as function of spin, and γ -intensity distributions. Comparison with calculations based on quasiparticle-random-phase approximation using an instantaneous-shape sampling (ISS-QRPA). JOUR PRVCA 82 024314

A=140

¹⁴⁰Ba 2010CH41 NUCLEAR REACTIONS ²³⁹Pu(n, F)⁹⁹Mo / ⁹⁵Zr / ¹⁴⁰Ba / ¹⁴⁴Ce / ¹⁴⁷Nd, E=0.2-2 MeV; measured fission products; deduced fission product yields and its energy dependence. Comparison with ENDF / B-VII.0 library, LANL-ILRR measurements. JOUR NDSBA 111 2923

 2010SE15 NUCLEAR REACTIONS ^{235,238}U, ²³⁹Pu(n, F)⁹⁹Mo / ⁹⁵Zr / ¹³⁷Cs / ¹⁴⁰Ba / ^{141,143}Ce / ¹⁴⁷Nd, E=0.4-1.9 MeV; measured fission products; deduced fission product yields. Comparison with ENDF / B-VII.0 library, BIG TEN critical assembly. JOUR NDSBA 111 2891

¹⁴⁰Ce 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

¹⁴⁰Pr 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

¹⁴⁰Nd 2010GL05 NUCLEAR REACTIONS ¹⁴⁰Ce(³He, 3n), E=19.8 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, half-lives by DSAM. ¹⁴⁰Nd; deduced levels, J, π , transition probabilities, phonon-mixed symmetry states. JOUR PRVCA 82 037302

¹⁴⁰Pm 2010WA37 NUCLEAR REACTIONS ¹²⁶Te(¹⁹F, 5n), E=90 MeV; measured E γ , I γ , γ - γ -coin.; ¹⁴⁰Pm deduced energies, level scheme, yrast bands, J, π , multipolarities. Comparison with TRS calculations. JOUR JPGPE 37 125107

A=141

No references found

A=142

¹⁴²Nd 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

¹⁴²Pm 2009KI25 RADIOACTIVITY ¹²²I, ¹⁴⁰Pr, ¹⁴²Pm(EC); measured T_{1/2} of hydrogen-like ions; deduced squared neutrino mass difference. JOUR NUPAB 827 510c

KEYNUMBERS AND KEYWORDS

A=143

No references found

A=144

¹⁴⁴Ce 2010CH41 NUCLEAR REACTIONS ²³⁹Pu(n, F)⁹⁹Mo / ⁹⁵Zr / ¹⁴⁰Ba / ¹⁴⁴Ce / ¹⁴⁷Nd, E=0.2-2 MeV; measured fission products; deduced fission product yields and its energy dependence. Comparison with ENDF / B-VII.0 library, LANL-ILRR measurements. JOUR NDSBA 111 2923

A=145

No references found

A=146

No references found

A=147

¹⁴⁷Nd 2010CH41 NUCLEAR REACTIONS ²³⁹Pu(n, F)⁹⁹Mo / ⁹⁵Zr / ¹⁴⁰Ba / ¹⁴⁴Ce / ¹⁴⁷Nd, E=0.2-2 MeV; measured fission products; deduced fission product yields and its energy dependence. Comparison with ENDF / B-VII.0 library, LANL-ILRR measurements. JOUR NDSBA 111 2923

A=148

¹⁴⁸Eu 2010IV02 NUCLEAR REACTIONS ^{147,149}Sm(p, γ), E not given; measured E γ , I γ ; deduced S-factors. Comparison with NONSMOKER calculations. JOUR RJPHE 55 1006

A=149

¹⁴⁹Pr 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -, (x ray)- γ coin, half-lives by γ (t) using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

¹⁴⁹Nd 2010RU09 RADIOACTIVITY ¹⁴⁹Nd(β^-)[from ²³⁵U(n, F), E=thermal and subsequent decays]; measured E γ , I γ (t), $\gamma\gamma$ -coin, $\beta\gamma$ -coin. ¹⁴⁹Nd; deduced levels, J, π , isomeric transition, T_{1/2}, band structure, B(E1), dipole moment; calculated deformation. JOUR ZAANE 45 1

KEYNUMBERS AND KEYWORDS

A=149 (continued)

¹⁴⁹Pm 2010RU09 RADIOACTIVITY ¹⁴⁹Nd(β^-) [from ²³⁵U(n, F), E=thermal and subsequent decays]; measured E γ , I γ (t), $\gamma\gamma$ -coin, $\beta\gamma$ -coin. ¹⁴⁹Nd; deduced levels, J, π , isomeric transition, T_{1/2}, band structure, B(E1), dipole moment; calculated deformation. JOUR ZAANE 45 1

A=150

¹⁵⁰Pr 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma^-$, (x ray)- γ coin, half-lives by γ (t) using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

¹⁵⁰Nd 2009DA25 RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured T_{1/2} for zero / two-neutrino $2\beta^-$ -decay events; deduced effective neutrino mass. JOUR NUPAB 827 495c

 2009KIZV RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); measured E γ , I γ , $\gamma\gamma$ -coin; deduced T_{1/2}. Kimballton Underground Research Facility. REPT TUNL-XLVIII,P28,Kidd

 2010K028 ATOMIC MASSES ¹⁵⁰Nd, ¹⁵⁰Sm; measured cyclotron frequencies using JYFLTRAP Penning-trap mass spectrometer; deduced mass difference and Q value for double-beta decay. Comparison with AME 2003. JOUR PRVCA 82 022501

 2010K028 RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); deduced Q value from mass difference measurement of ¹⁵⁰Nd and ¹⁵⁰Sm using JYFLTRAP Penning-trap mass spectrometer. Comparison with AME 2003. JOUR PRVCA 82 022501

¹⁵⁰Sm 2009KIZV RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); measured E γ , I γ , $\gamma\gamma$ -coin; deduced T_{1/2}. Kimballton Underground Research Facility. REPT TUNL-XLVIII,P28,Kidd

 2010K028 ATOMIC MASSES ¹⁵⁰Nd, ¹⁵⁰Sm; measured cyclotron frequencies using JYFLTRAP Penning-trap mass spectrometer; deduced mass difference and Q value for double-beta decay. Comparison with AME 2003. JOUR PRVCA 82 022501

 2010K028 RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); deduced Q value from mass difference measurement of ¹⁵⁰Nd and ¹⁵⁰Sm using JYFLTRAP Penning-trap mass spectrometer. Comparison with AME 2003. JOUR PRVCA 82 022501

¹⁵⁰Eu 2010IV02 NUCLEAR REACTIONS ^{147,149}Sm(p, γ), E not given; measured E γ , I γ ; deduced S-factors. Comparison with NONSMOKER calculations. JOUR RJPHE 55 1006

A=151

¹⁵¹Pr 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma^-$, (x ray)- γ coin, half-lives by γ (t) using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

A=152

No references found

A=153

¹⁵³Pr 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

A=154

No references found

A=155

No references found

A=156

No references found

A=157

¹⁵⁷Sm 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308

A=158

No references found

A=159

No references found

KEYNUMBERS AND KEYWORDS

A=160

¹⁶⁰Re 2011DA01 RADIOACTIVITY ¹⁶⁰Re(IT) [from ¹⁰⁶Cd(⁵⁸Ni, X), E=290, 300 MeV]; measured E γ , I γ , $\gamma\gamma$ and $\alpha\gamma$ -coin.; deduced a new high-spin isomeric state, T_{1/2}. Comparison with shell model calculations. JOUR PYLBB 695 78

A=161

No references found

A=162

No references found

A=163

¹⁶³W 2008ERZX NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, xn2p), E=270 MeV; measured A(particle), Z(particle), E(particle), E γ , I γ (θ), $\gamma\gamma$ -coin. ¹⁶³W deduced levels, J, π , high-spin states, yrast band. Results on CD only. CONF E.Lansing (NS2008),P101,Erturk

A=164

No references found

A=165

No references found

A=166

No references found

A=167

No references found

KEYNUMBERS AND KEYWORDS

A=168

¹⁶⁸Ta 2010WA36 NUCLEAR REACTIONS ¹²⁰Sn(⁵¹V, 3n), E=235 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ¹⁶⁸Ta, deduced levels, J, π , B(M1) / B(E2) values, energy staggerings of signature partners, alignments, two-quasiparticle bands, configurations. Comparisons with cranked shell model calculations, and with band structures of ^{162,164,166}Tm, ^{164,166,169}Lu, ¹⁶⁷Hf and ^{166,167,170}Ta. JOUR PRVCA 82 034315

A=169

¹⁶⁹Ho 2010DR05 NUCLEAR REACTIONS ¹⁷⁰Er(¹³⁶Xe, X), E=830 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, delayed spectra, half-lives and branching ratios using Gammasphere array. ¹⁶⁹Ho, ¹⁷¹Tm; deduced levels, J, π , isomer, transition strengths and hindrances, g_K-g_R values, bands and quasiparticle configurations. JOUR PRVCA 82 034317

¹⁶⁹Yb 2010MA50 NUCLEAR REACTIONS ¹⁶⁸Yb, ¹⁸⁰W, ¹⁸⁴Os, ¹⁹⁰Pt, ¹⁹⁶Hg(n, γ), E=spectrum[neutrons from ⁷Li(p, n), E=1912 keV]; measured E γ , I γ , σ using activation method; deduced capture cross sections for an average neutron energy of kT=25 keV. Comparison with previous measurements. Discussed impact on p-process network. JOUR PRVCA 82 035806

2011MA01 NUCLEAR REACTIONS Yb(d, xn)¹⁶⁹Lu / ¹⁷⁰Lu / ¹⁷¹Lu / ¹⁷²Lu / ¹⁷³Lu / ¹⁷⁴Lu / ¹⁷⁶Lu / ¹⁷⁷Lu, Yb(d, xnp)¹⁶⁹Yb / ¹⁷⁵Yb / ¹⁷⁷Yb, E<18.18 MeV; measured E γ , I γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37

¹⁶⁹Lu 2011MA01 NUCLEAR REACTIONS Yb(d, xn)¹⁶⁹Lu / ¹⁷⁰Lu / ¹⁷¹Lu / ¹⁷²Lu / ¹⁷³Lu / ¹⁷⁴Lu / ¹⁷⁶Lu / ¹⁷⁷Lu, Yb(d, xnp)¹⁶⁹Yb / ¹⁷⁵Yb / ¹⁷⁷Yb, E<18.18 MeV; measured E γ , I γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37

A=170

¹⁷⁰Yb 2011MA01 RADIOACTIVITY ^{170,171,172}Lu(EC), ^{176,177}Lu, ^{175,177}Yb(β^-); measured E γ , I γ ; deduced T_{1/2}. Comparison with other data. JOUR ARISE 69 37

¹⁷⁰Lu 2011MA01 NUCLEAR REACTIONS Yb(d, xn)¹⁶⁹Lu / ¹⁷⁰Lu / ¹⁷¹Lu / ¹⁷²Lu / ¹⁷³Lu / ¹⁷⁴Lu / ¹⁷⁶Lu / ¹⁷⁷Lu, Yb(d, xnp)¹⁶⁹Yb / ¹⁷⁵Yb / ¹⁷⁷Yb, E<18.18 MeV; measured E γ , I γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37

2011MA01 RADIOACTIVITY ^{170,171,172}Lu(EC), ^{176,177}Lu, ^{175,177}Yb(β^-); measured E γ , I γ ; deduced T_{1/2}. Comparison with other data. JOUR ARISE 69 37

KEYNUMBERS AND KEYWORDS

A=171

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| ^{171}Tm | 2010DR05 | NUCLEAR REACTIONS $^{170}\text{Er}(^{136}\text{Xe}, \text{X})$, $E=830$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, delayed spectra, half-lives and branching ratios using Gammasphere array. ^{169}Ho , ^{171}Tm ; deduced levels, J, π , isomer, transition strengths and hindrances, g_K - g_R values, bands and quasiparticle configurations. JOUR PRVCA 82 034317 |
| ^{171}Yb | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |
| ^{171}Lu | 2011MA01 | NUCLEAR REACTIONS $\text{Yb}(\text{d}, \text{xn})^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(\text{d}, \text{xnp})^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E<18.18$ MeV; measured $E\gamma$, $I\gamma$; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37 |
| | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |

A=172

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| ^{172}Yb | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |
| ^{172}Lu | 2011MA01 | NUCLEAR REACTIONS $\text{Yb}(\text{d}, \text{xn})^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(\text{d}, \text{xnp})^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E<18.18$ MeV; measured $E\gamma$, $I\gamma$; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37 |
| | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |

A=173

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| ^{173}Lu | 2011MA01 | NUCLEAR REACTIONS $\text{Yb}(\text{d}, \text{xn})^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(\text{d}, \text{xnp})^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E<18.18$ MeV; measured $E\gamma$, $I\gamma$; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37 |
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A=174

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| ^{174}Lu | 2011MA01 | NUCLEAR REACTIONS $\text{Yb}(\text{d}, \text{xn})^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(\text{d}, \text{xnp})^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E<18.18$ MeV; measured $E\gamma$, $I\gamma$; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37 |
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KEYNUMBERS AND KEYWORDS

A=175

^{175}Yb	2011MA01	NUCLEAR REACTIONS $\text{Yb}(d, xn)^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(d, xnp)^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E < 18.18$ MeV; measured E_γ , I_γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37
	2011MA01	RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured E_γ , I_γ ; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37
^{175}Lu	2011MA01	RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured E_γ , I_γ ; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37

A=176

^{176}Lu	2011MA01	NUCLEAR REACTIONS $\text{Yb}(d, xn)^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(d, xnp)^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E < 18.18$ MeV; measured E_γ , I_γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37
	2011MA01	RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured E_γ , I_γ ; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37
^{176}Hf	2011MA01	RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured E_γ , I_γ ; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37
^{176}Au	2010AN13	RADIOACTIVITY $^{180}\text{Tl}(\alpha)$, (β^+) , (EC) [from $\text{U}(p, X)$, $E = 1.4$ GeV]; measured fission fragments, E_α , I_α , X-rays. ^{180}Hg ; deduced asymmetric fission fragment distribution, branching ratio for β -delayed fission. JOUR PRLTA 105 252502

A=177

^{177}Yb	2011MA01	NUCLEAR REACTIONS $\text{Yb}(d, xn)^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(d, xnp)^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E < 18.18$ MeV; measured E_γ , I_γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37
	2011MA01	RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured E_γ , I_γ ; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37
^{177}Lu	2011MA01	NUCLEAR REACTIONS $\text{Yb}(d, xn)^{169}\text{Lu} / ^{170}\text{Lu} / ^{171}\text{Lu} / ^{172}\text{Lu} / ^{173}\text{Lu} / ^{174}\text{Lu} / ^{176}\text{Lu} / ^{177}\text{Lu}$, $\text{Yb}(d, xnp)^{169}\text{Yb} / ^{175}\text{Yb} / ^{177}\text{Yb}$, $E < 18.18$ MeV; measured E_γ , I_γ ; deduced thin target yields, thick target yields, σ . Comparison with experimental data. JOUR ARISE 69 37

A=177 (continued)

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| | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |
| ^{177}Hf | 2011MA01 | RADIOACTIVITY $^{170,171,172}\text{Lu}(\text{EC})$, $^{176,177}\text{Lu}$, $^{175,177}\text{Yb}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with other data. JOUR ARISE 69 37 |

A=178

No references found

A=179

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|-------------------|----------|--|
| ^{179}Os | 2008GOZM | NUCLEAR REACTIONS $^{166}\text{Ho}(^{20}\text{Ne}, \text{p}6\text{n})$, $E=150$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, polarization; deduced levels, J , π , yrast band, rotational band; calculated levels, J , π using HF with angular projection. Abstract only. CONF E.Lansing (NS2008),P108,Govil |
| ^{179}Au | 2011VE01 | RADIOACTIVITY $^{183}\text{Tl}(\alpha)$, $^{179}\text{Au}(\text{IT})$ [from $^{107}\text{Ag}(^{78}\text{Kr}, \text{X})^{185}\text{Bi}(2\text{p})$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin., $E\alpha$, $I\alpha$, α - γ coin.; deduced new isomer, $T_{1/2}$, $B(E1)$, level scheme, shape coexistence, intruder states. JOUR PYLBB 695 82 |

A=180

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|-------------------|----------|--|
| ^{180}Hg | 2010AN13 | RADIOACTIVITY $^{180}\text{Tl}(\alpha)$, (β^+) , (EC) [from $\text{U}(\text{p}, \text{X})$, $E=1.4$ GeV]; measured fission fragments, $E\alpha$, $I\alpha$, X-rays. ^{180}Hg ; deduced asymmetric fission fragment distribution, branching ratio for β -delayed fission. JOUR PRLTA 105 252502 |
| ^{180}Tl | 2010AN13 | RADIOACTIVITY $^{180}\text{Tl}(\alpha)$, (β^+) , (EC) [from $\text{U}(\text{p}, \text{X})$, $E=1.4$ GeV]; measured fission fragments, $E\alpha$, $I\alpha$, X-rays. ^{180}Hg ; deduced asymmetric fission fragment distribution, branching ratio for β -delayed fission. JOUR PRLTA 105 252502 |

A=181

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| ^{181}W | 2008HUZU | NUCLEAR REACTIONS $^{181}\text{W}(^{17}\text{O}, ^{17}\text{O}')$, $E(\text{cm})=26$ -36 MeV; measured $\sigma(\theta=166.07^\circ)$; calculated $\sigma(\theta=166.07^\circ)$ using FRESKO. Results on CD only. CONF E.Lansing (NS2008),P115,Huiza |
| | 2010MA50 | NUCLEAR REACTIONS ^{168}Yb , ^{180}W , ^{184}Os , ^{190}Pt , $^{196}\text{Hg}(\text{n}, \gamma)$, $E=\text{spectrum}$ [neutrons from $^7\text{Li}(\text{p}, \text{n})$, $E=1912$ keV]; measured $E\gamma$, $I\gamma$, σ using activation method; deduced capture cross sections for an average neutron energy of $kT=25$ keV. Comparison with previous measurements. Discussed impact on p-process network. JOUR PRVCA 82 035806 |

KEYNUMBERS AND KEYWORDS

A=181 (continued)

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|-------------------|----------|---|
| | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{181}Re | 2011B001 | NUCLEAR REACTIONS $W(\text{p}, \text{xn})^{181}\text{Re} / ^{182}\text{Re} / ^{183}\text{Re} / ^{184}\text{Re} / ^{186}\text{Re}$, $E=9.5$ MeV; $^{186}\text{W}(\text{p}, \text{n})$, $E=14, 17, 22$ MeV; measured E_γ, I_γ ; deduced thick-target yields, σ . Comparison with EMPIRE II model code. JOUR RAACA 99 1 |
| | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |

A=182

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|-------------------|----------|---|
| ^{182}W | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{182}Re | 2011B001 | NUCLEAR REACTIONS $W(\text{p}, \text{xn})^{181}\text{Re} / ^{182}\text{Re} / ^{183}\text{Re} / ^{184}\text{Re} / ^{186}\text{Re}$, $E=9.5$ MeV; $^{186}\text{W}(\text{p}, \text{n})$, $E=14, 17, 22$ MeV; measured E_γ, I_γ ; deduced thick-target yields, σ . Comparison with EMPIRE II model code. JOUR RAACA 99 1 |
| | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |

A=183

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|-------------------|----------|---|
| ^{183}Hf | 2010RE07 | NUCLEAR REACTIONS $^9\text{Be}(^{197}\text{Au}, \text{X})^{183}\text{Hf} / ^{184}\text{Hf} / ^{186}\text{Hf} / ^{186}\text{Ta} / ^{187}\text{Ta}$, $E=478-492$ MeV / nucleon; measured Schottky frequency spectra of ions stored in an ESR storage ring; deduced $T_{1/2}, J, \pi$, isomer region near $N=116$. JOUR PRLTA 105 172501 |
| ^{183}W | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{183}Re | 2011B001 | NUCLEAR REACTIONS $W(\text{p}, \text{xn})^{181}\text{Re} / ^{182}\text{Re} / ^{183}\text{Re} / ^{184}\text{Re} / ^{186}\text{Re}$, $E=9.5$ MeV; $^{186}\text{W}(\text{p}, \text{n})$, $E=14, 17, 22$ MeV; measured E_γ, I_γ ; deduced thick-target yields, σ . Comparison with EMPIRE II model code. JOUR RAACA 99 1 |
| | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured E_γ, I_γ ; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{183}Tl | 2011VE01 | RADIOACTIVITY $^{183}\text{Tl}(\alpha), ^{179}\text{Au}(\text{IT})$ [from $^{107}\text{Ag}(^{78}\text{Kr}, \text{X})^{185}\text{Bi}(2\text{p})$]; measured $E_\gamma, I_\gamma, \gamma\gamma\text{-coin.}, E_\alpha, I_\alpha, \alpha\text{-}\gamma$ coin.; deduced new isomer, $T_{1/2}, B(E1)$, level scheme, shape coexistence, intruder states. JOUR PYLBB 695 82 |

KEYNUMBERS AND KEYWORDS

A=184

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|-------------------|----------|--|
| ^{184}Hf | 2010RE07 | NUCLEAR REACTIONS $^9\text{Be}(^{197}\text{Au}, \text{X})^{183}\text{Hf} / ^{184}\text{Hf} / ^{186}\text{Hf} / ^{186}\text{Ta} / ^{187}\text{Ta}$, E=478-492 MeV / nucleon; measured Schottky frequency spectra of ions stored in an ESR storage ring; deduced $T_{1/2}$, J, π , isomer region near N=116. JOUR PRLTA 105 172501 |
| ^{184}W | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured $E\gamma, I\gamma$; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{184}Re | 2011B001 | NUCLEAR REACTIONS $\text{W}(\text{p}, \text{xn})^{181}\text{Re} / ^{182}\text{Re} / ^{183}\text{Re} / ^{184}\text{Re} / ^{186}\text{Re}$, E=9.5 MeV; $^{186}\text{W}(\text{p}, \text{n})$, E=14, 17, 22 MeV; measured $E\gamma, I\gamma$; deduced thick-target yields, σ . Comparison with EMPIRE II model code. JOUR RAACA 99 1 |
| | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured $E\gamma, I\gamma$; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |

A=185

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|-------------------|----------|---|
| ^{185}Os | 2010MA50 | NUCLEAR REACTIONS $^{168}\text{Yb}, ^{180}\text{W}, ^{184}\text{Os}, ^{190}\text{Pt}, ^{196}\text{Hg}(\text{n}, \gamma)$, E=spectrum[neutrons from $^7\text{Li}(\text{p}, \text{n})$, E=1912 keV]; measured $E\gamma, I\gamma, \sigma$ using activation method; deduced capture cross sections for an average neutron energy of kT=25 keV. Comparison with previous measurements. Discussed impact on p-process network. JOUR PRVCA 82 035806 |
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A=186

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|-------------------|----------|--|
| ^{186}Hf | 2010RE07 | NUCLEAR REACTIONS $^9\text{Be}(^{197}\text{Au}, \text{X})^{183}\text{Hf} / ^{184}\text{Hf} / ^{186}\text{Hf} / ^{186}\text{Ta} / ^{187}\text{Ta}$, E=478-492 MeV / nucleon; measured Schottky frequency spectra of ions stored in an ESR storage ring; deduced $T_{1/2}$, J, π , isomer region near N=116. JOUR PRLTA 105 172501 |
| ^{186}Ta | 2010RE07 | NUCLEAR REACTIONS $^9\text{Be}(^{197}\text{Au}, \text{X})^{183}\text{Hf} / ^{184}\text{Hf} / ^{186}\text{Hf} / ^{186}\text{Ta} / ^{187}\text{Ta}$, E=478-492 MeV / nucleon; measured Schottky frequency spectra of ions stored in an ESR storage ring; deduced $T_{1/2}$, J, π , isomer region near N=116. JOUR PRLTA 105 172501 |
| ^{186}W | 2011B001 | RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC}); ^{186}\text{Re}(\text{EC}), (\beta^-)$; measured $E\gamma, I\gamma$; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1 |
| ^{186}Re | 2009KEZZ | NUCLEAR REACTIONS $^{187}\text{Re}(\text{n}, 2\text{n}\gamma)^{186\text{m}}\text{Re}$, E=12 MeV; measured $E\gamma, I\gamma$ 12 up to months after irradiation. Aim is to reduce uncertainties in $^{186}\text{Re} / ^{187}\text{Os}$ cosmochronometer; further experiments and analyses to follow. REPT TUNL-XLVIII,P48,Kelley |
| | 2011B001 | NUCLEAR REACTIONS $\text{W}(\text{p}, \text{xn})^{181}\text{Re} / ^{182}\text{Re} / ^{183}\text{Re} / ^{184}\text{Re} / ^{186}\text{Re}$, E=9.5 MeV; $^{186}\text{W}(\text{p}, \text{n})$, E=14, 17, 22 MeV; measured $E\gamma, I\gamma$; deduced thick-target yields, σ . Comparison with EMPIRE II model code. JOUR RAACA 99 1 |

KEYNUMBERS AND KEYWORDS

A=186 (continued)

- 2011B001 RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC})$; $^{186}\text{Re}(\text{EC})$, (β^-); measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1
- ^{186}Os 2010PH01 NUCLEAR REACTIONS $^{185,187}\text{Re}(^3\text{He}, \text{d})$, $E=30$ MeV; measured $E(\text{d})$, $I(\text{d})$, σ , $\sigma(\theta)$; DWBA analysis of $\sigma(\theta)$ data. $^{186,188}\text{Os}$; deduced levels, J , π , L-transfers, spectroscopic factors, bands and amplitudes of two-quasiparticle components. Comparison with quasiparticle-phonon model (QPM) predictions. JOUR PRVCA 82 034321
- 2011B001 RADIOACTIVITY $^{181,182,183,184}\text{Re}(\text{EC})$; $^{186}\text{Re}(\text{EC})$, (β^-); measured $E\gamma$, $I\gamma$; deduced $T_{1/2}$. Comparison with nuclear databases. JOUR RAACA 99 1

A=187

- ^{187}Ta 2010RE07 NUCLEAR REACTIONS $^9\text{Be}(^{197}\text{Au}, \text{X})^{183}\text{Hf} / ^{184}\text{Hf} / ^{186}\text{Hf} / ^{186}\text{Ta} / ^{187}\text{Ta}$, $E=478\text{-}492$ MeV / nucleon; measured Schottky frequency spectra of ions stored in an ESR storage ring; deduced $T_{1/2}$, J , π , isomer region near $N=116$. JOUR PRLTA 105 172501

A=188

- ^{188}Os 2010PH01 NUCLEAR REACTIONS $^{185,187}\text{Re}(^3\text{He}, \text{d})$, $E=30$ MeV; measured $E(\text{d})$, $I(\text{d})$, σ , $\sigma(\theta)$; DWBA analysis of $\sigma(\theta)$ data. $^{186,188}\text{Os}$; deduced levels, J , π , L-transfers, spectroscopic factors, bands and amplitudes of two-quasiparticle components. Comparison with quasiparticle-phonon model (QPM) predictions. JOUR PRVCA 82 034321

A=189

No references found

A=190

No references found

A=191

- ^{191}Pt 2010MA50 NUCLEAR REACTIONS ^{168}Yb , ^{180}W , ^{184}Os , ^{190}Pt , $^{196}\text{Hg}(\text{n}, \gamma)$, $E=\text{spectrum}[\text{neutrons from } ^7\text{Li}(\text{p}, \text{n}), E=1912 \text{ keV}]$; measured $E\gamma$, $I\gamma$, σ using activation method; deduced capture cross sections for an average neutron energy of $kT=25$ keV. Comparison with previous measurements. Discussed impact on p-process network. JOUR PRVCA 82 035806

KEYNUMBERS AND KEYWORDS

A=191 (continued)

^{191}Pb	2010C013	RADIOACTIVITY $^{191,193}\text{Bi}(\text{EC})$, $^{195}\text{Po}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced branching ratios, α -decay fine structures, γ -ray energies and intensities, J , π , ICC. JOUR JPGPE 37 125103
^{191}Bi	2010C013	RADIOACTIVITY $^{191,193}\text{Bi}(\text{EC})$, $^{195}\text{Po}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced branching ratios, α -decay fine structures, γ -ray energies and intensities, J , π , ICC. JOUR JPGPE 37 125103

A=192

^{192}Pb	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$. JOUR PRVCA 82 044302
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A=193

^{193}Pb	2010C013	RADIOACTIVITY $^{191,193}\text{Bi}(\text{EC})$, $^{195}\text{Po}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced branching ratios, α -decay fine structures, γ -ray energies and intensities, J , π , ICC. JOUR JPGPE 37 125103
^{193}Bi	2010C013	RADIOACTIVITY $^{191,193}\text{Bi}(\text{EC})$, $^{195}\text{Po}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced branching ratios, α -decay fine structures, γ -ray energies and intensities, J , π , ICC. JOUR JPGPE 37 125103

A=194

^{194}Re	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{194}Os	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{194}Bi	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$. JOUR PRVCA 82 044302

A=195

^{195}Re	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{195}Os	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{195}Bi	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$. JOUR PRVCA 82 044302
^{195}Po	2010C013	RADIOACTIVITY $^{191,193}\text{Bi}(\text{EC})$, $^{195}\text{Po}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced branching ratios, α -decay fine structures, γ -ray energies and intensities, J , π , ICC. JOUR JPGPE 37 125103

KEYNUMBERS AND KEYWORDS

A=195 (continued)

2010JA05 RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$.
JOUR PRVCA 82 044302

A=196

^{196}Re 2009KU28 RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, X)$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c

^{196}Os 2009KU28 RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, X)$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c

^{196}Po 2010JA05 RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$.
JOUR PRVCA 82 044302

A=197

^{197}Au 2010KE09 ATOMIC MASSES ^{197}Au ; measured cyclotron frequency ratios using various sizes of carbon clusters; deduced mass. JOUR ZDDNE 58 47

2010LI33 NUCLEAR REACTIONS $^{197}\text{Au}(^{17}\text{Ne}, ^{17}\text{Ne}')$, $(^{18}\text{Ne}, ^{18}\text{Ne}')$, $(^{28}\text{S}, ^{28}\text{S}')$, $(^{29}\text{S}, ^{29}\text{S}')$, E not given; measured Coulomb excitation E_p , $I_p(\theta)$, pp -coin, $E(\text{particle})$, $I(\text{particle})$, relative energy spectra, angular distributions; deduced $2p$ halo states. Kinematically complete experiment, secondary radioactive beams. JOUR NUPAB 834 450c

2010TA22 NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, $E=1450$ MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, $E=1450$ MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, $E=1430$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J , π , $(g_K-g_R) / Q_0$, alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured $E\gamma$. Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301

^{197}Hg 2010MA50 NUCLEAR REACTIONS ^{168}Yb , ^{180}W , ^{184}Os , ^{190}Pt , $^{196}\text{Hg}(n, \gamma)$, $E=\text{spectrum}[\text{neutrons from } ^7\text{Li}(p, n), E=1912 \text{ keV}]$; measured $E\gamma$, $I\gamma$, σ using activation method; deduced capture cross sections for an average neutron energy of $kT=25$ keV. Comparison with previous measurements. Discussed impact on p -process network. JOUR PRVCA 82 035806

^{197}At 2010JA05 NUCLEAR REACTIONS $^{150}\text{Sm}(^{52}\text{Cr}, 2np)$, $E=231$ MeV; $^{120}\text{Sn}(^{82}\text{Kr}, 2np)$, $E=355$ MeV; $^{165}\text{Ho}(^{40}\text{Ar}, 6n)$, $E=200$ MeV; measured $E\gamma$, $I\gamma$, $E\alpha$, ce , $\gamma\gamma$ -, $\gamma\alpha$ -, (particle) γ -coin, isomer half-lives using JUROGAM array and GREAT spectrometer. Recoil-decay tagging method. Prompt and delayed γ spectra. ^{199}At ; deduced levels, J , π , conversion coefficients, multipolarities, $B(M2)$, isomers, configurations. ^{197}At ; analyzed previous γ -ray data; deduced levels, J , π , bands. Systematics of energy levels of $N=106$ - 126 At nuclei. Systematics of $B(M1) / B(E2)$ ratios of ^{193}Bi , $^{197,199}\text{At}$ nuclei. Systematics of kinematic moments of inertia for ^{193}Bi , $^{192,194,196}\text{Po}$, $^{197,199}\text{At}$, ^{198}Rn nuclei. JOUR PRVCA 82 044302

KEYNUMBERS AND KEYWORDS

A=198

^{198}Ir	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{198}Pt	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{198}Au	2010G025	RADIOACTIVITY $^{198}\text{Au}(\beta^-)$ [from $^{197}\text{Au}(n, \gamma)$, $E=\text{thermal}$]; measured E_γ , I_γ , half-life in a non-metal environment; deduced no dependence of half-life on host material. JOUR PRVCA 82 044320
^{198}Hg	2010G025	RADIOACTIVITY $^{198}\text{Au}(\beta^-)$ [from $^{197}\text{Au}(n, \gamma)$, $E=\text{thermal}$]; measured E_γ , I_γ , half-life in a non-metal environment; deduced no dependence of half-life on host material. JOUR PRVCA 82 044320
^{198}Tl	2010LA15	NUCLEAR REACTIONS $^{197}\text{Au}(\alpha, 3n)$, $E=40$ MeV; measured E_γ , $I_\gamma(\theta)$, $E(\text{ce})$, $I(\text{ce})$, $(\text{ce})\gamma$ -coin, $\gamma\gamma$ -coin, polarization anisotropy. ^{198}Tl ; deduced γ transitions, multipolarities, internal-conversion X-rays, levels, J , π , $B(\text{M}1)$, $B(\text{E}2)$ for yrast and side bands; calculated levels, J , π , $B(\text{M}1)$, $B(\text{E}2)$ for yrast and side bands, rotation-angular momentum angle. JOUR ZAANE 45 39
^{198}At	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured E_α . JOUR PRVCA 82 044302

A=199

^{199}Os	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{199}Ir	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{199}Pt	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{199}At	2010JA05	NUCLEAR REACTIONS $^{150}\text{Sm}(^{52}\text{Cr}, 2n\text{p})$, $E=231$ MeV; $^{120}\text{Sn}(^{82}\text{Kr}, 2n\text{p})$, $E=355$ MeV; $^{165}\text{Ho}(^{40}\text{Ar}, 6n)$, $E=200$ MeV; measured E_γ , I_γ , E_α , ce , $\gamma\gamma$ -, $\gamma\alpha$ -, (particle) γ -coin, isomer half-lives using JUROGAM array and GREAT spectrometer. Recoil-decay tagging method. Prompt and delayed γ spectra. ^{199}At ; deduced levels, J , π , conversion coefficients, multipolarities, $B(\text{M}2)$, isomers, configurations. ^{197}At ; analyzed previous γ -ray data; deduced levels, J , π , bands. Systematics of energy levels of $N=106$ - 126 At nuclei. Systematics of $B(\text{M}1) / B(\text{E}2)$ ratios of ^{193}Bi , $^{197,199}\text{At}$ nuclei. Systematics of kinematic moments of inertia for ^{193}Bi , $^{192,194,196}\text{Po}$, $^{197,199}\text{At}$, ^{198}Rn nuclei. JOUR PRVCA 82 044302
	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured E_α . JOUR PRVCA 82 044302
^{199}Rn	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured E_α . JOUR PRVCA 82 044302

KEYNUMBERS AND KEYWORDS

A=200

^{200}Os	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{200}Ir	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{200}Pt	2009KU28	RADIOACTIVITY $^{194,195,196}\text{Re}$, $^{199,200}\text{Os}$, $^{198,199,200}\text{Ir}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured $T_{1/2}$. Comparison with two QRPA models. JOUR NUPAB 827 587c
^{200}Rn	2010JA05	RADIOACTIVITY ^{196}Po , $^{198,199}\text{At}$, $^{199,200}\text{Rn}(\alpha)$; measured $E\alpha$. JOUR PRVCA 82 044302

A=201

No references found

A=202

No references found

A=203

^{203}Pt	2010AL24	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, $E=1$ GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
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A=204

^{204}Pt	2010AL24	NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, $E=1$ GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
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KEYNUMBERS AND KEYWORDS

A=204 (continued)

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| ^{204}Pb | 2010ZE06 | NUCLEAR REACTIONS ^{58}Ni , $^{204,206,208}\text{Pb}$ (polarized p, p), E=295 MeV; measured proton spectra, $\sigma(\theta)$ and analyzing powers; deduced neutron and proton densities, neutron skin thickness and rms radii using model-independent sum-of-Gaussians distributions. Comparison with relativistic impulse approximation (RIA) for ^{58}Ni data and with RIA and Murdock and Horowitz (MH) model calculations for Pb nuclei. JOUR PRVCA 82 044611 |
| ^{204}Po | 2010KA29 | NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr} / ^{209}\text{Fr} / ^{210}\text{Fr}$, E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1 |

A=205

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| ^{205}Pt | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |
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A=206

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| ^{206}Pb | 2010ZE06 | NUCLEAR REACTIONS ^{58}Ni , $^{204,206,208}\text{Pb}$ (polarized p, p), E=295 MeV; measured proton spectra, $\sigma(\theta)$ and analyzing powers; deduced neutron and proton densities, neutron skin thickness and rms radii using model-independent sum-of-Gaussians distributions. Comparison with relativistic impulse approximation (RIA) for ^{58}Ni data and with RIA and Murdock and Horowitz (MH) model calculations for Pb nuclei. JOUR PRVCA 82 044611 |
| ^{206}At | 2010KA29 | NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr} / ^{209}\text{Fr} / ^{210}\text{Fr}$, E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1 |

A=207

- ²⁰⁷Au 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²⁰⁷Pb 2010TA22 NUCLEAR REACTIONS ²⁴⁸Cm(²⁰⁹Bi, ²¹⁰Bi)²⁴⁷Cm, E=1450 MeV; ²⁵⁰Cm(²⁰⁹Bi, ²⁰⁸Bi)²⁴⁹Cm, E=1450 MeV; ²⁴⁹Cf(²⁰⁷Pb, ²⁰⁷Pb'), E=1430 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using GammaspHERE array. ^{247,249}Cm, ²⁴⁹Cf; deduced levels, J, π , (g_K - g_R) / Q₀, alignments, Nilsson configurations, and rotational bands. ¹⁹⁷Au, ²⁰⁷Pb, ²⁰⁸Bi, ²¹⁰Bi; measured E γ . Systematics of alignments for ²⁴⁴Pu, ²⁴⁶Cm, ²⁴⁸Cf, ²⁵⁰Fm and ²⁵²No, Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301

A=208

- ²⁰⁸Au 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²⁰⁸Pb 2010EL05 NUCLEAR REACTIONS ¹H(²¹N, ²¹N'), (²¹N, X), E=52.0 MeV; ²⁰⁸Pb(²¹N, ²¹N'), (²¹N, X), E=48.1 MeV, [secondary ²¹N beam from ¹⁸¹Ta(⁴⁰Ar, X), E=63 MeV / nucleon primary reaction]; measured particle spectra, E γ , I γ , $\gamma\gamma$ -coin, cross sections. ^{19,21}N; deduced levels, B(E2). GEANT4 simulation of γ -ray spectra. JOUR PRVCA 82 027305
- 2010JI11 NUCLEAR REACTIONS ²⁰⁸Pb(⁹Be, ⁹Be), E=23.9-44.0 MeV; measured particle-spectra, $\sigma(E)$ for quasielastic scattering; deduced barrier distribution. Comparison with coupled-channel model calculations. JOUR PRVCA 82 027602
- 2010ZE06 NUCLEAR REACTIONS ⁵⁸Ni, ^{204,206,208}Pb(polarized p, p), E=295 MeV; measured proton spectra, $\sigma(\theta)$ and analyzing powers; deduced neutron and proton densities, neutron skin thickness and rms radii using model-independent sum-of-Gaussians distributions. Comparison with relativistic impulse approximation (RIA) for ⁵⁸Ni data and with RIA and Murdock and Horowitz (MH) model calculations for Pb nuclei. JOUR PRVCA 82 044611

KEYNUMBERS AND KEYWORDS

A=208 (continued)

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| ^{208}Bi | 2010TA22 | NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, E=1450 MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, E=1450 MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, E=1430 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J, π , (g_K - g_R) / Q_0 , alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured $E\gamma$. Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301 |
| ^{208}Rn | 2010KA29 | NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr} / ^{209}\text{Fr} / ^{210}\text{Fr}$, E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1 |
| ^{208}Fr | 2010KA29 | NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr} / ^{209}\text{Fr} / ^{210}\text{Fr}$, E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1 |

A=209

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| ^{209}Au | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |
| ^{209}Bi | 2009HEZW | NUCLEAR REACTIONS $^{209}\text{Bi}(\gamma, \gamma')$, E=11-30 MeV; measured $E\gamma$, $I\gamma(\theta)$ using polarized γ ; deduced yields, asymmetry, IVGDR. REPT TUNL-XLVIII,P95,Henshaw |
| | 2010ZH34 | NUCLEAR REACTIONS $^{209}\text{Bi}(n, n)$, (n, n') E=37 MeV, [neutrons produced in $^3\text{H}(d, n)$]; measured neutron spectra, cross sections, $\sigma(\theta)$, TOF method. Optical model analysis of $\sigma(\theta)$ data. Optical-model (OM) + DWBA calculations with weak particle-core coupling for computing (n, n) and (n, n') cross sections. JOUR PRVCA 82 024601 |
| ^{209}Fr | 2010KA29 | NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr} / ^{209}\text{Fr} / ^{210}\text{Fr}$, E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1 |

A=210

- ^{210}Au 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{210}Hg 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{210}Tl 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{210}Bi 2010TA22 NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, E=1450 MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, E=1450 MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, E=1430 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J, π , (g_K - g_R) / Q_0 , alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured $E\gamma$. Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301
- ^{210}Fr 2010KA29 NUCLEAR REACTIONS $^{197}\text{Au}(^{16}\text{O}, \text{xn})^{208}\text{Fr}$ / ^{209}Fr / ^{210}Fr , E=88, 94, 100 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, evaporation residue yields, $T_{1/2}$ using INGA array. ^{208}Fr ; deduced energy levels, J, π , $T_{1/2}$, DCO ratios. ^{204}Po , ^{206}At , ^{208}Rn ; deduced levels $T_{1/2}$. Comparison with other data. JOUR NUPAB 842 1

A=211

- ²¹¹Hg 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹¹Tl 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹¹Po 2010HE14 NUCLEAR REACTIONS ²⁰⁷Pb(⁶⁴Ni, X)²¹¹Po / ²¹²At / ²¹³Rn / ²¹³Fr / ²¹⁴Ra, E=4.80, 5.00, 5.20, 5.40, 5.53, 5.92 MeV / nucleon; measured $E\alpha$, $I\alpha$, $\sigma(\theta)$, yields, fragment energy spectra (TKE) using SHIP velocity filter. ²³⁸U(²³⁸U, X), E=6.09, 6.49, 6.91, 7.10, 7.35 MeV / nucleon; measured $\sigma(\theta)$, mass distributions, yields, fragment energy spectra (TKE) using VAMOS spectrometer; deduced interaction times using diffusion model. JOUR NUPAB 834 362c

A=212

- ²¹²Hg 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹²Tl 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=212 (continued)

²¹²At 2010HE14 NUCLEAR REACTIONS ²⁰⁷Pb(⁶⁴Ni, X)²¹¹Po / ²¹²At / ²¹³Rn / ²¹³Fr / ²¹⁴Ra, E=4.80, 5.00, 5.20, 5.40, 5.53, 5.92 MeV / nucleon; measured E α , I α , $\sigma(\theta)$, yields, fragment energy spectra (TKE) using SHIP velocity filter. ²³⁸U(²³⁸U, X), E=6.09, 6.49, 6.91, 7.10, 7.35 MeV / nucleon; measured $\sigma(\theta)$, mass distributions, yields, fragment energy spectra (TKE) using VAMOS spectrometer; deduced interaction times using diffusion model. JOUR NUPAB 834 362c

A=213

²¹³Hg 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²¹³Tl 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²¹³Rn 2010HE14 NUCLEAR REACTIONS ²⁰⁷Pb(⁶⁴Ni, X)²¹¹Po / ²¹²At / ²¹³Rn / ²¹³Fr / ²¹⁴Ra, E=4.80, 5.00, 5.20, 5.40, 5.53, 5.92 MeV / nucleon; measured E α , I α , $\sigma(\theta)$, yields, fragment energy spectra (TKE) using SHIP velocity filter. ²³⁸U(²³⁸U, X), E=6.09, 6.49, 6.91, 7.10, 7.35 MeV / nucleon; measured $\sigma(\theta)$, mass distributions, yields, fragment energy spectra (TKE) using VAMOS spectrometer; deduced interaction times using diffusion model. JOUR NUPAB 834 362c

²¹³Fr 2010HE14 NUCLEAR REACTIONS ²⁰⁷Pb(⁶⁴Ni, X)²¹¹Po / ²¹²At / ²¹³Rn / ²¹³Fr / ²¹⁴Ra, E=4.80, 5.00, 5.20, 5.40, 5.53, 5.92 MeV / nucleon; measured E α , I α , $\sigma(\theta)$, yields, fragment energy spectra (TKE) using SHIP velocity filter. ²³⁸U(²³⁸U, X), E=6.09, 6.49, 6.91, 7.10, 7.35 MeV / nucleon; measured $\sigma(\theta)$, mass distributions, yields, fragment energy spectra (TKE) using VAMOS spectrometer; deduced interaction times using diffusion model. JOUR NUPAB 834 362c

A=214

- ²¹⁴Hg 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁴Tl 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁴Pb 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁴Ra 2010HE14 NUCLEAR REACTIONS ²⁰⁷Pb(⁶⁴Ni, X)²¹¹Po / ²¹²At / ²¹³Rn / ²¹³Fr / ²¹⁴Ra, E=4.80, 5.00, 5.20, 5.40, 5.53, 5.92 MeV / nucleon; measured $E\alpha$, $I\alpha$, $\sigma(\theta)$, yields, fragment energy spectra (TKE) using SHIP velocity filter. ²³⁸U(²³⁸U, X), E=6.09, 6.49, 6.91, 7.10, 7.35 MeV / nucleon; measured $\sigma(\theta)$, mass distributions, yields, fragment energy spectra (TKE) using VAMOS spectrometer; deduced interaction times using diffusion model. JOUR NUPAB 834 362c

A=215

- ²¹⁵Hg 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

KEYNUMBERS AND KEYWORDS

A=215 (continued)

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| ^{215}Tl | 2010AL24 | <p>NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ, yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ. Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602</p> |
| ^{215}Pb | 2010AL24 | <p>NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ, yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ. Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602</p> |

A=216

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| ^{216}Hg | 2010AL24 | <p>NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ, yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ. Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602</p> |
| ^{216}Tl | 2010AL24 | <p>NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ, yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ. Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602</p> |
| ^{216}Pb | 2010AL24 | <p>NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ, yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ. Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602</p> |

A=217

- ²¹⁷Tl 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁷Pb 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁷Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=218

- ²¹⁸Pb 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁸Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=219

- ²¹⁹Pb 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²¹⁹Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=220

- ²²⁰Pb 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁰Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁰Po 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=221

- ²²¹Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²¹Po 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=222

- ²²²Bi 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²²Po 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²²At 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=223

- ^{223}Bi 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{223}Po 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{223}At 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=224

- ^{224}Bi 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ^{224}Po 2010AL24 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. $^{203,204,205}\text{Pt}$, $^{207,208,209,210}\text{Au}$, $^{210,211,212,213,214,215,216}\text{Hg}$, $^{210,211,212,213,214,215,216,217}\text{Tl}$, $^{214,215,216,217,218,219,220}\text{Pb}$, $^{217,218,219,220,221,222,223,224}\text{Bi}$, $^{220,221,222,223,224,225,226,227}\text{Po}$, $^{222,223,224,225,226,227,228,229}\text{At}$, $^{225,226,227,228,229,230,231}\text{Rn}$, $^{228,229,230,232,232,233}\text{Fr}$; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

KEYNUMBERS AND KEYWORDS

A=224 (continued)

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| ^{224}At | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205} Pt, ^{207,208,209,210} Au, ^{210,211,212,213,214,215,216} Hg, ^{210,211,212,213,214,215,216,217} Tl, ^{214,215,216,217,218,219,220} Pb, ^{217,218,219,220,221,222,223,224} Bi, ^{220,221,222,223,224,225,226,227} Po, ^{222,223,224,225,226,227,228,229} At, ^{225,226,227,228,229,230,231} Rn, ^{228,229,230,232,232,233} Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |
| ^{224}Ra | 2008GRZN | RADIOACTIVITY $^{228}\text{Th}(\alpha)$; measured γ polarization. Abstract only. CONF E.Lansing (NS2008),P111,Gros |

A=225

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| ^{225}Po | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205} Pt, ^{207,208,209,210} Au, ^{210,211,212,213,214,215,216} Hg, ^{210,211,212,213,214,215,216,217} Tl, ^{214,215,216,217,218,219,220} Pb, ^{217,218,219,220,221,222,223,224} Bi, ^{220,221,222,223,224,225,226,227} Po, ^{222,223,224,225,226,227,228,229} At, ^{225,226,227,228,229,230,231} Rn, ^{228,229,230,232,232,233} Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |
| ^{225}At | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205} Pt, ^{207,208,209,210} Au, ^{210,211,212,213,214,215,216} Hg, ^{210,211,212,213,214,215,216,217} Tl, ^{214,215,216,217,218,219,220} Pb, ^{217,218,219,220,221,222,223,224} Bi, ^{220,221,222,223,224,225,226,227} Po, ^{222,223,224,225,226,227,228,229} At, ^{225,226,227,228,229,230,231} Rn, ^{228,229,230,232,232,233} Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |
| ^{225}Rn | 2010AL24 | NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})$, E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205} Pt, ^{207,208,209,210} Au, ^{210,211,212,213,214,215,216} Hg, ^{210,211,212,213,214,215,216,217} Tl, ^{214,215,216,217,218,219,220} Pb, ^{217,218,219,220,221,222,223,224} Bi, ^{220,221,222,223,224,225,226,227} Po, ^{222,223,224,225,226,227,228,229} At, ^{225,226,227,228,229,230,231} Rn, ^{228,229,230,232,232,233} Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602 |

A=226

- ²²⁶Po 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁶At 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁶Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=227

- ²²⁷Po 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁷At 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

KEYNUMBERS AND KEYWORDS

A=227 (continued)

²²⁷Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=228

²²⁸At 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²²⁸Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²²⁸Fr 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²²⁸Th 2008GRZN RADIOACTIVITY ²²⁸Th(α); measured γ polarization. Abstract only. CONF E.Lansing (NS2008),P111,Gros

A=229

- ²²⁹At 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁹Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²²⁹Fr 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=230

- ²³⁰Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602
- ²³⁰Fr 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

KEYNUMBERS AND KEYWORDS

A=230 (continued)

²³⁰U 2010NT01 NUCLEAR REACTIONS ²³²Th(α , 4n), E=42 MeV; ²³²Th(α , 6n), E=61 MeV; measured E γ , I γ , $\gamma\gamma$ -, $\gamma\gamma$ (recoil)-coin. ^{230,232}U; deduced levels, J, π , rotational bands, octupole bands, B(E1) / B(E2) ratios, electric dipole moments. Systematics of ground state and octupole bands in ^{226,228}Ra, ^{228,230}Th, ^{230,232}U. Systematics of electric dipole moment in Ra, Th and U isotopes with N=130, 134, 138, 142 and 146; and comparison with Skyrme Hartree-Fock calculations in the literature. JOUR PRVCA 82 041305

A=231

²³¹Rn 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=232

²³²Fr 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

²³²U 2010NT01 NUCLEAR REACTIONS ²³²Th(α , 4n), E=42 MeV; ²³²Th(α , 6n), E=61 MeV; measured E γ , I γ , $\gamma\gamma$ -, $\gamma\gamma$ (recoil)-coin. ^{230,232}U; deduced levels, J, π , rotational bands, octupole bands, B(E1) / B(E2) ratios, electric dipole moments. Systematics of ground state and octupole bands in ^{226,228}Ra, ^{228,230}Th, ^{230,232}U. Systematics of electric dipole moment in Ra, Th and U isotopes with N=130, 134, 138, 142 and 146; and comparison with Skyrme Hartree-Fock calculations in the literature. JOUR PRVCA 82 041305

A=233

²³³Fr 2010AL24 NUCLEAR REACTIONS ⁹Be(²³⁸U, X), E=1 GeV / nucleon; measured fragment residues using a high resolution magnetic spectrometer Fragment Separator, σ , yields. ^{203,204,205}Pt, ^{207,208,209,210}Au, ^{210,211,212,213,214,215,216}Hg, ^{210,211,212,213,214,215,216,217}Tl, ^{214,215,216,217,218,219,220}Pb, ^{217,218,219,220,221,222,223,224}Bi, ^{220,221,222,223,224,225,226,227}Po, ^{222,223,224,225,226,227,228,229}At, ^{225,226,227,228,229,230,231}Rn, ^{228,229,230,232,232,233}Fr; deduced yields, production σ . Comparisons of σ with the predictions obtained using the computer codes COFRA and EPAX. JOUR PRVCA 82 041602

A=234

No references found

A=235

No references found

A=236

No references found

A=237

No references found

A=238

No references found

A=239

²³⁹U 2009B0ZV NUCLEAR REACTIONS ²³⁸U(d, f), (d, pf), E=124 MeV; measured A \approx 70-160 yields, TKE. ²³⁸U(d, p), E=124 MeV; measured $\sigma(E, \theta)$. CONF Dub(Nucl Struct and Dynamics,09) Proc,P140

A=240

No references found

A=241

No references found

A=242

- ²⁴²Am 2010HA24 NUCLEAR REACTIONS ^{242m}Am(⁴⁰Ar, ⁴⁰Ar'), E=170.5 MeV; measured E γ , I γ , (particle) γ -, $\gamma\gamma$ -coin using Gammasphere array. ²⁴²Am; deduced levels, J, π , rotational bands, Nilsson configurations, band parameters, alignments, B(E1), B(E2) and B(E3) strengths. Coulomb excitation. Comparison of alignment of the observed bands in ²⁴²Am with single-particle alignments in ²⁴¹Am and with particle-rotor model calculations. JOUR PRVCA 82 044319

A=243

No references found

A=244

No references found

A=245

- ²⁴⁵Cm 2010G024 NUCLEAR REACTIONS ²⁴⁴Cm(n, γ), E<200 eV; measured neutron time of flight, E γ , I γ ; deduced the neutron capture σ ratios of ²⁴⁴Cm resonances. JOUR JNSTA 47 1097

A=246

- ²⁴⁶Fm 2010SV01 RADIOACTIVITY ²⁴⁶Fm(SF)[from ²⁰⁸Pb(⁴⁰Ar, 2n), E=186 MeV]; measured En, In(θ), E α , I α , E(particle), I(particle), (particle)n-coin; deduced neutron multiplicity, T_{1/2}, spontaneous fission branching ratio. JOUR ZAANE 44 393
- 2010SV01 NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁰Ar, 2n), E=186 MeV; measured σ . JOUR ZAANE 44 393

A=247

- ^{247}Cm 2010TA22 NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, E=1450 MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, E=1450 MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, E=1430 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J, π , (g_K - g_R) / Q_0 , alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured E_γ . Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301

A=248

- ^{248}Cm 2010SI17 RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, and half-lives using EUROGAM-II and Gammasphere arrays. $^{91,93,95}\text{Rb}$; deduced levels, J, π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in $^{89,91,93,95}\text{Rb}$. ^{93}Rb , ^{95}Y ; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302
- ^{248}Es 2010ZH36 NUCLEAR REACTIONS $^{48}\text{Ca}(^{48}\text{Ca}, \pi^+)$, $(^{48}\text{Ca}, \pi^-)$, $^{124}\text{Sn}(^{124}\text{Sn}, \pi^+)$, $(^{124}\text{Sn}, \pi^-)$, $^{197}\text{Au}(^{197}\text{Au}, \pi^+)$, $(^{197}\text{Au}, \pi^-)$, E=0.25-0.6 GeV / nucleon; measured pion production yield ratios; deduced radii, symmetry energy. Comparison with isobar model. JOUR NUPAB 834 567c
- ^{248}Md 2010ZH36 NUCLEAR REACTIONS $^{48}\text{Ca}(^{48}\text{Ca}, \pi^+)$, $(^{48}\text{Ca}, \pi^-)$, $^{124}\text{Sn}(^{124}\text{Sn}, \pi^+)$, $(^{124}\text{Sn}, \pi^-)$, $^{197}\text{Au}(^{197}\text{Au}, \pi^+)$, $(^{197}\text{Au}, \pi^-)$, E=0.25-0.6 GeV / nucleon; measured pion production yield ratios; deduced radii, symmetry energy. Comparison with isobar model. JOUR NUPAB 834 567c

A=249

- ^{249}Cm 2010TA22 NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, E=1450 MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, E=1450 MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, E=1430 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J, π , (g_K - g_R) / Q_0 , alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured E_γ . Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301
- ^{249}Cf 2010TA22 NUCLEAR REACTIONS $^{248}\text{Cm}(^{209}\text{Bi}, ^{210}\text{Bi})^{247}\text{Cm}$, E=1450 MeV; $^{250}\text{Cm}(^{209}\text{Bi}, ^{208}\text{Bi})^{249}\text{Cm}$, E=1450 MeV; $^{249}\text{Cf}(^{207}\text{Pb}, ^{207}\text{Pb}')$, E=1430 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin using Gammasphere array. $^{247,249}\text{Cm}$, ^{249}Cf ; deduced levels, J, π , (g_K - g_R) / Q_0 , alignments, Nilsson configurations, and rotational bands. ^{197}Au , ^{207}Pb , ^{208}Bi , ^{210}Bi ; measured E_γ . Systematics of alignments for ^{244}Pu , ^{246}Cm , ^{248}Cf , ^{250}Fm and ^{252}No , Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301

A=250

No references found

A=251

- ²⁵¹Cm 2010TA22 NUCLEAR REACTIONS ²⁴⁸Cm(²⁰⁹Bi, ²¹⁰Bi)²⁴⁷Cm, E=1450 MeV; ²⁵⁰Cm(²⁰⁹Bi, ²⁰⁸Bi)²⁴⁹Cm, E=1450 MeV; ²⁴⁹Cf(²⁰⁷Pb, ²⁰⁷Pb'), E=1430 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ^{247,249}Cm, ²⁴⁹Cf; deduced levels, J, π , (g_K - g_R) / Q₀, alignments, Nilsson configurations, and rotational bands. ¹⁹⁷Au, ²⁰⁷Pb, ²⁰⁸Bi, ²¹⁰Bi; measured E γ . Systematics of alignments for ²⁴⁴Pu, ²⁴⁶Cm, ²⁴⁸Cf, ²⁵⁰Fm and ²⁵²No, Comparison with Woods-Saxon cranking calculations. JOUR PRVCA 82 041301

A=252

- ²⁵²Cf 2010HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -, (x ray)- γ coin, half-lives by $\gamma(t)$ using Gammasphere array. ⁹³Kr, ^{151,153}Pr, ¹⁵⁷Sm; deduced levels, J, π , bands, configurations, conversion coefficients, B(E1) / B(E2) ratios. ^{96,97,98,99}Y, ^{149,150}Pr; measured E γ . JOUR PRVCA 82 034308
- 2010PY02 RADIOACTIVITY ²⁵²Cf(SF); measured E(fragment), I(fragment, θ), (fragment)(fragment)-coin from fission; deduced fission fragment mass correlations. JOUR ZAANE 45 29
- 2010SI17 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, and half-lives using EUROGAM-II and Gammasphere arrays. ^{91,93,95}Rb; deduced levels, J, π , isomers, transition probabilities, and configurations. Comparison with shell-model calculations. Systematics of low-lying levels in ^{89,91,93,95}Rb. ⁹³Rb, ⁹⁵Y; comparison of experimental and calculated spectra. JOUR PRVCA 82 024302
- 2010YE08 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ¹⁰⁴Zr; deduced levels, J, π , bands, yrast structure, configurations. Comparison with projected shell model (PSM) calculations. JOUR PRVCA 82 027302

A=253

No references found

A=254

No references found

A=255

²⁵⁵No 2010NI14 RADIOACTIVITY ^{267,268}Hs(α)[from ²³⁸U(³⁴S, X), E=163.0 MeV]; ²⁶³Sg, ²⁵⁹Rf(α); ²⁶⁴Sg(SF); measured E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced Q α . Systematics of Q α values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=256

No references found

A=257

No references found

A=258

No references found

A=259

²⁵⁹Rf 2010NI14 RADIOACTIVITY ^{267,268}Hs(α)[from ²³⁸U(³⁴S, X), E=163.0 MeV]; ²⁶³Sg, ²⁵⁹Rf(α); ²⁶⁴Sg(SF); measured E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced Q α . Systematics of Q α values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=260

No references found

A=261

No references found

A=262

No references found

A=263

²⁶³Sg 2010NI14 RADIOACTIVITY ^{267,268}Hs(α)[from ²³⁸U(³⁴S, X), E=163.0 MeV]; ²⁶³Sg, ²⁵⁹Rf(α); ²⁶⁴Sg(SF); measured E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced Q α . Systematics of Q α values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=264

²⁶⁴Sg 2010NI14 RADIOACTIVITY ^{267,268}Hs(α)[from ²³⁸U(³⁴S, X), E=163.0 MeV]; ²⁶³Sg, ²⁵⁹Rf(α); ²⁶⁴Sg(SF); measured E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced Q α . Systematics of Q α values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=265

No references found

A=266

²⁶⁶Hs 2010IT02 NUCLEAR REACTIONS ²⁴⁸Cm(²⁶Mg, X)²⁷⁴Hs, E*=28-64 MeV; ²³⁸U(³⁶S, X)²⁷⁴Hs, E*=30-57 MeV; ²⁰⁸Pb(⁵⁸Fe, X)²⁶⁶Hs, E*=33, 48 MeV; measured σ , fragment energy spectra (TKE), yields using CORSET spectrometer; deduced reaction mechanism features. JOUR NUPAB 834 374c

A=267

²⁶⁷Hs 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission σ (E), mass distribution of fission fragments as a function of energy. Comparison of fission σ (E) with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

2010NI14 RADIOACTIVITY ^{267,268}Hs(α)[from ²³⁸U(³⁴S, X), E=163.0 MeV]; ²⁶³Sg, ²⁵⁹Rf(α); ²⁶⁴Sg(SF); measured E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced Q α . Systematics of Q α values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=268

- ^{268}Sg 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, $(^{36}\text{S}, \text{xn})$ reactions. JOUR PRVCA 82 024611
- ^{268}Hs 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, $(^{36}\text{S}, \text{xn})$ reactions. JOUR PRVCA 82 024611
- 2010NI14 RADIOACTIVITY $^{267,268}\text{Hs}(\alpha)$ [from $^{238}\text{U}(^{34}\text{S}, \text{X})$, E=163.0 MeV]; ^{263}Sg , $^{259}\text{Rf}(\alpha)$; $^{264}\text{Sg}(\text{SF})$; measured $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, half-lives; deduced $Q\alpha$. Systematics of $Q\alpha$ values for even-even Z=104-114 and N=150-170 nuclei. JOUR PRVCA 82 024611

A=269

- ^{269}Sg 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, $(^{36}\text{S}, \text{xn})$ reactions. JOUR PRVCA 82 024611
- ^{269}Mt 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, $(^{36}\text{S}, \text{xn})$ reactions. JOUR PRVCA 82 024611

A=270

No references found

A=271

- ²⁷¹Mt 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

A=272

- ²⁷²Hs 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611
- ²⁷²Mt 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

A=273

- ^{273}Hs 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, ($^{36}\text{S}, \text{xn}$) reactions. JOUR PRVCA 82 024611
- ^{273}Rg 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, ($^{36}\text{S}, \text{xn}$) reactions. JOUR PRVCA 82 024611

A=274

- ^{274}Sg 2010NI14 NUCLEAR REACTIONS $^{238}\text{U}(^{34}\text{S}, \text{xn})^{267}\text{Hs} / ^{268}\text{Hs}$, E=148-170 MeV; measured evaporation residues and $E\alpha$, $E\gamma$, x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. $^{268,269}\text{Sg}$, $^{272,273}\text{Hs}$, $^{269,271,272}\text{Mt}$, $^{274,275,276,277}\text{Sg}$, $^{273,275,276}\text{Rg}$, $^{278,279,280,281}\text{Cn}$; theoretical estimates of production rates in ^{243}Am , ^{244}Pu , $^{248}\text{Cm}(^{34}\text{S}, \text{xn})$, ($^{36}\text{S}, \text{xn}$) reactions. JOUR PRVCA 82 024611
- ^{274}Hs 2010IT02 NUCLEAR REACTIONS $^{248}\text{Cm}(^{26}\text{Mg}, \text{X})^{274}\text{Hs}$, $E^*=28-64$ MeV; $^{238}\text{U}(^{36}\text{S}, \text{X})^{274}\text{Hs}$, $E^*=30-57$ MeV; $^{208}\text{Pb}(^{58}\text{Fe}, \text{X})^{266}\text{Hs}$, $E^*=33, 48$ MeV; measured σ , fragment energy spectra (TKE), yields using CORSET spectrometer; deduced reaction mechanism features. JOUR NUPAB 834 374c

A=275

- ²⁷⁵Sg 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611
- ²⁷⁵Rg 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

A=276

- ²⁷⁶Sg 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611
- ²⁷⁶Rg 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

A=277

²⁷⁷Sg 2010NI14 NUCLEAR REACTIONS ²³⁸U(³⁴S, xn)²⁶⁷Hs / ²⁶⁸Hs, E=148-170 MeV; measured evaporation residues and E α , E γ , x-rays, (fragment) α -, (fragment) γ -coin, production σ , fission $\sigma(E)$, mass distribution of fission fragments as a function of energy. Comparison of fission $\sigma(E)$ with calculations based on the three-dimensional Langevin equation and deformed target nuclei. Coupled-channel calculations for mass distributions. ^{268,269}Sg, ^{272,273}Hs, ^{269,271,272}Mt, ^{274,275,276,277}Sg, ^{273,275,276}Rg, ^{278,279,280,281}Cn; theoretical estimates of production rates in ²⁴³Am, ²⁴⁴Pu, ²⁴⁸Cm(³⁴S, xn), (³⁶S, xn) reactions. JOUR PRVCA 82 024611

A=278

No references found

A=279

No references found

A=280

No references found

A=281

No references found

A=282

No references found

A=283

No references found

A=284

No references found

A=285

²⁸⁵114 2010EL06 NUCLEAR REACTIONS ²⁴²Pu(⁴⁸Ca, Xn)²⁸⁵114 / ²⁸⁶114 / ²⁸⁷114 / ²⁸⁸114, E=256 MeV; measured reaction products, E α , I α ; deduced σ , Q-values. Comparison with experimental values. JOUR PRLTA 105 182701

A=286

²⁸⁶114 2010EL06 NUCLEAR REACTIONS ²⁴²Pu(⁴⁸Ca, Xn)²⁸⁵114 / ²⁸⁶114 / ²⁸⁷114 / ²⁸⁸114, E=256 MeV; measured reaction products, E α , I α ; deduced σ , Q-values. Comparison with experimental values. JOUR PRLTA 105 182701

A=287

²⁸⁷114 2010EL06 NUCLEAR REACTIONS ²⁴²Pu(⁴⁸Ca, Xn)²⁸⁵114 / ²⁸⁶114 / ²⁸⁷114 / ²⁸⁸114, E=256 MeV; measured reaction products, E α , I α ; deduced σ , Q-values. Comparison with experimental values. JOUR PRLTA 105 182701

A=288

²⁸⁸114 2010EL06 NUCLEAR REACTIONS ²⁴²Pu(⁴⁸Ca, Xn)²⁸⁵114 / ²⁸⁶114 / ²⁸⁷114 / ²⁸⁸114, E=256 MeV; measured reaction products, E α , I α ; deduced σ , Q-values. Comparison with experimental values. JOUR PRLTA 105 182701

A=289

No references found

A=290

No references found

A=291

No references found

A=292

No references found

A=293

No references found

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