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Contents

Keynumbers and Keywords	2
References	92

Keynumbers and Keywords

A=1

- ¹n 2009FUZZ NUCLEAR REACTIONS ⁴He(n, n'), E=thermal; Ar(n, n'), E=thermal; measured In, TOF; deduced $\sigma(^4\text{He}) / \sigma(\text{Ar})$; ¹n(n, n'), E=thermal; measured In, TOF; deduced n-n scattering length. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P53,Furman
- 2009SPZZ NUCLEAR REACTIONS ²H(¹¹B, $\alpha^8\text{Be}$)n, E=27 MeV; measured E(particle), I(particle); ²H(¹⁰B, $\alpha^7\text{Be}$), E=24.4 MeV; measured α -Be-coin.; deduced momentum distribution, $\sigma(^{11}\text{B}(p, \alpha_0))$, S-factor using Trojan Horse Method. CONF Tokai (Perspective in Nuc Phys), Proc.P171,Spitaleri
- ¹H 2009DE42 NUCLEAR REACTIONS ¹H(¹⁹Ne, ¹⁹Ne'), (¹⁵O, ¹⁵O), E=9 MeV / nucleon; measured reaction fragments; deduced $\sigma(\theta)$; JOUR IMPEE 18 2140
- 2009KA29 NUCLEAR REACTIONS ³He(γ , d)(γ , p), E=14-31 MeV; measured proton and deuteron spectra, and differential cross sections as a function of E γ using tagged-photon facility at MAX-lab. The two-body photodisintegration of ³He investigated. Comparison with previous measurements and theoretical calculations using Faddeev technique. JOUR PRVCA 80 044001
- 2009K0ZZ NUCLEAR REACTIONS ²H(n, 2n), E=40-60 MeV; measured scattering length a_{nn} . CONF Cheboksary,P48,Konobeevsky
- 2009MA59 NUCLEAR REACTIONS ¹H(polarized p, p'), E=190 MeV; measured bremsstrahlung σ , $\sigma(\theta)$ and relative energy of the two protons. Comparison with two soft-photon models. JOUR ZAANE 41 25
- 2009MI18 NUCLEAR REACTIONS ³He(e, e'np), E=220-270 MeV; measured Ee, Ie, Ep, Ip and En, In; deduced σ . Continuum Fadeev calculations. JOUR PRLTA 103 152501
- 2009TA31 NUCLEAR REACTIONS ¹H(³²Mg, ³²Mg'), E=45.5 MeV / nucleon; measured E γ , I γ , γ - γ -coin.; ³²Mg deduced level energies, decay and level scheme, J, π , $\sigma(\theta)$, β_2 . Secondary beam from ⁴⁰Ar fragmentation. JOUR IMPEE 18 2025
- 2009WIZZ NUCLEAR REACTIONS ³H(³⁰Mg, ³²Mg), E=1.83 MeV / nucleon; measured Ep, Ip, θ_p , E(particle), I(particle), E γ , I γ using REX-ISOLDE and MINIBALL; deduced $\sigma(\theta)$; calculated $\sigma(\theta)$ using DWBA. Compared to data. REPT MLL 2008 Annual,P4,Wimmer
- 2009YAZU NUCLEAR REACTIONS ¹H(⁷Be, ⁷Be), E(cm) \approx 0.3-6.5 MeV; ¹H(⁷Be, ⁷Be'), E(cm) \approx 0.3-6.5 MeV; measured E(particle), I(particle); deduced σ , $d\sigma$, resonances in ⁸B. Presented R-matrix fit of resonances. CONF Tokai (Perspective in Nuc Phys), Proc.P189,Yamaguchi

A=2

- ²n 2009BEZV NUCLEAR REACTIONS ³H(d, ³He), E=37 MeV; measured ³He spectra at $\theta(\text{lab})=7.6-31.6^\circ$, $d\sigma / d\theta$, $d\sigma / d\theta dE$. CONF Cheboksary,P149,Belyuskina

A=2 (continued)

²H 2009BE32 NUCLEAR REACTIONS ³H(d, d'), (d, t), E=37 MeV; measured Id, Ed, It, Et; deduced $\sigma(\theta, E)$, $\sigma(\theta)$. JOUR UKPJA 54 658

A=3

³H 2009BE32 NUCLEAR REACTIONS ³H(d, d'), (d, t), E=37 MeV; measured Id, Ed, It, Et; deduced $\sigma(\theta, E)$, $\sigma(\theta)$. JOUR UKPJA 54 658

2009LA23 NUCLEAR REACTIONS ²H(d, p), ⁶Li(d, p), (d, α), ⁷Li(d, α), (d, ⁵He), E=100 keV; measured Ep, Ip, E α , I α , σ , $\sigma(\theta)$. E(d)=50, 60, 70, 80 MeV was also used. JOUR PRVCA 80 044617

2009RA32 NUCLEAR REACTIONS ²H(²⁰O, ¹⁹O)³H, E=11 MeV / nucleon; measured reaction fragments, E γ , I γ ; deduced J, π , $\sigma(\theta)$. Comparison with DWBA calculations. JOUR IMPEE 18 2056

³He 2009BYZZ NUCLEAR REACTIONS ²H(d, n), E=2.2-6.0 keV; measured En, In, σ ; deduced upper limit of electronic shielding potential, astrophysical S-factor. CONF Cheboksary,P104, Bystritsky

2009HU14 NUCLEAR REACTIONS ³He(n, n), E=reactor spectrum; measured En, In, neutron spectra; deduced neutron polarization, spin-dependent scattering length. JOUR NIMAE 611 235

A=4

⁴He 2009FUZZ NUCLEAR REACTIONS ⁴He(n, n'), E=thermal; Ar(n, n'), E=thermal; measured In, TOF; deduced $\sigma(^4\text{He}) / \sigma(\text{Ar})$; ¹n(n, n'), E=thermal; measured In, TOF; deduced n-n scattering length. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P53,Furman

2009GR11 RADIOACTIVITY ⁶Be(2p)[from ¹⁰C(α)]; measured Ep, I π , angular distributions. JOUR PRVCA 80 034602

2009LA23 NUCLEAR REACTIONS ²H(d, p), ⁶Li(d, p), (d, α), ⁷Li(d, α), (d, ⁵He), E=100 keV; measured Ep, Ip, E α , I α , σ , $\sigma(\theta)$. E(d)=50, 60, 70, 80 MeV was also used. JOUR PRVCA 80 044617

A=5

⁵He 2009AK03 NUCLEAR REACTIONS ¹H(⁸He, np), E=240 MeV / nucleon; measured fragment spectra, neutron spectra, relative energy spectra; deduced spectroscopic factor; ¹²C(⁶He, Xn)⁵He, E=240 MeV / nucleon; ¹²C(⁸He, Xn)⁷He, E=227 MeV / nucleon; analyzed fragment spectra, neutron spectra, relative energy spectra; deduced resonance parameters using R-matrix analysis, configurations, reaction mechanism features. JOUR PYLBB 679 191

2009LA23 NUCLEAR REACTIONS ²H(d, p), ⁶Li(d, p), (d, α), ⁷Li(d, α), (d, ⁵He), E=100 keV; measured Ep, Ip, E α , I α , σ , $\sigma(\theta)$. E(d)=50, 60, 70, 80 MeV was also used. JOUR PRVCA 80 044617

A=6

- ⁶Li 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π⁻), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π. Comparison with other data. JOUR PYLBB 681 139
- 2009BR10 ATOMIC MASSES ^{6,7}Li; measured frequency ratio using the TITAN Penning trap mass spectrometer at ISAC-TRIUMF facility. ⁶Li; deduced mass. Comparisons with previous measurements and AME-2003 evaluation. JOUR PRVCA 80 044318
- 2009CH39 NUCLEAR REACTIONS ^{6,7}Li(n, xn), (n, n), (n, n'), E = 8.17, 10.27 MeV; measured En, In using TOF; deduced σ(θ, E). Comparison with Monte Carlo simulation. JOUR NSENA 163 272
- ⁶Be 2009GR11 RADIOACTIVITY ⁶Be(2p)[from ¹⁰C(α)]; measured Ep, Iπ, angular distributions. JOUR PRVCA 80 034602

A=7

- ⁷He 2009AK03 NUCLEAR REACTIONS ¹H(⁸He, np), E=240 MeV / nucleon; measured fragment spectra, neutron spectra, relative energy spectra; deduced spectroscopic factor; ¹²C(⁶He, Xn)⁵He, E=240 MeV / nucleon; ¹²C(⁸He, Xn)⁷He, E=227 MeV / nucleon; analyzed fragment spectra, neutron spectra, relative energy spectra; deduced resonance parameters using R-matrix analysis, configurations, reaction mechanism features. JOUR PYLBB 679 191
- ⁷Li 2007ISZX NUCLEAR REACTIONS ²H(⁸Li, t), E(cm)=0.3, 0.4, 0.5, 0.7, 0.8, 1.0, 1.1 MeV; measured E(particle), I(particle); deduced σ, reaction rate. Compared to other data. REPT JAEA-Review 2007-046,P47,Ishiyama
- 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π⁻), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π. Comparison with other data. JOUR PYLBB 681 139
- 2009BR10 ATOMIC MASSES ^{6,7}Li; measured frequency ratio using the TITAN Penning trap mass spectrometer at ISAC-TRIUMF facility. ⁶Li; deduced mass. Comparisons with previous measurements and AME-2003 evaluation. JOUR PRVCA 80 044318
- 2009CH39 NUCLEAR REACTIONS ^{6,7}Li(n, xn), (n, n), (n, n'), E = 8.17, 10.27 MeV; measured En, In using TOF; deduced σ(θ, E). Comparison with Monte Carlo simulation. JOUR NSENA 163 272
- 2009ISZZ NUCLEAR REACTIONS ⁸Li(α, n), E(cm)=0.7-2.6 MeV; ⁸Li(d, t), E=0.3-1.2 MeV / nucleon; ¹²B(α, n), E(cm)=1.1-3.6 MeV; measured E(particle), I(particle); deduced σ, reaction rates. Compared to other data and predictions, discussed reaction paths of r-process. CONF Tokai (Perspective in Nuc Phys), Proc.P177,Ishiyama
- 2009LA23 NUCLEAR REACTIONS ²H(d, p), ⁶Li(d, p), (d, α), ⁷Li(d, α), (d, ⁵He), E=100 keV; measured Ep, Ip, Eα, Iα, σ, σ(θ). E(d)=50, 60, 70, 80 MeV was also used. JOUR PRVCA 80 044617

A=7 (continued)

⁷Be 2009WAZY RADIOACTIVITY ^{7,11}Be; measured laser-microwave spectra; deduced hyperfine splittings, nuclear magnetic moment, magnetization radii. Ion trap at SLOWRI facility. CONF Tokai (Perspective in Nuc Phys), Proc.P109,Wade

A=8

No references found

A=9

⁹Be 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π⁻), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π. Comparison with other data. JOUR PYLBB 681 139

2009PIZY NUCLEAR REACTIONS ⁹Be(⁷Be, ⁷Be), E=23.7 MeV; measured E(particle), I(particle), θ(particle); deduced dσ, optical model parameters; calculated using optical model and coupled channels. CONF Brazil (Nuclear Physics 2008) Proc. P123,Pires

A=10

¹⁰Be 2009MA54 RADIOACTIVITY ¹¹Li(β⁻), (β⁻n) [from Ta(p, X), E=500 MeV]; measured Eγ, Iγ, γγ-, βγ-coin, half-lives by line-shape method using 8pi array. ^{10,11}Be; deduced levels, J, π, branching ratios, B(E1), delayed neutron emission probabilities. JOUR PRVCA 80 034318

2009MAZX NUCLEAR REACTIONS ⁹Be(⁵⁰Ca, ⁴⁹Ca), E not given; measured Eγ, Iγ, γγ-coin.; deduced σ, momentum distribution, L, J, π of so-far unobserved state in ⁴⁹Ca; calculated momentum distribution. REPT MLL 2008 Annual,P5,Maierbeck

2009MC02 NUCLEAR REACTIONS ⁷Li(⁷Li, α)¹⁰Be, E=8, 10 MeV; measured Eγ, Iγ; deduced lifetime, B(E2) values for ¹⁰Be. DSAM technique, comparison with ab initio calculations. JOUR PRLTA 103 192501

2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β⁻);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β⁺); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

¹⁰B 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β⁻);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β⁺); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

¹⁰C 2009GR11 NUCLEAR REACTIONS ¹H(¹⁰B, n)¹⁰C, E=15 MeV / nucleon; measured E_p, I_p, E_α, I_α, energy and angular correlation distributions in a kinematically complete experiment. Comparison with three-body cluster model. JOUR PRVCA 80 034602

A=11

- ¹¹Li 2009BAZT RADIOACTIVITY ¹⁸Ne(β^+), ¹¹Li(β^-), A=160(β^+) [from TRIUMF-ISAC]; ¹⁸F(β^+) [from ¹⁸Ne]; measured E β , I β , E γ , I γ , β - γ -coin.; deduced J, π , transition strengths. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P19,Ball
- 2009MA54 RADIOACTIVITY ¹¹Li(β^-), (β^- n) [from Ta(p, X), E=500 MeV]; measured E γ , I γ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives by line-shape method using 8pi array. ^{10,11}Be; deduced levels, J, π , branching ratios, B(E1), delayed neutron emission probabilities. JOUR PRVCA 80 034318
- ¹¹Be 2009BAZT RADIOACTIVITY ¹⁸Ne(β^+), ¹¹Li(β^-), A=160(β^+) [from TRIUMF-ISAC]; ¹⁸F(β^+) [from ¹⁸Ne]; measured E β , I β , E γ , I γ , β - γ -coin.; deduced J, π , transition strengths. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P19,Ball
- 2009MA54 RADIOACTIVITY ¹¹Li(β^-), (β^- n) [from Ta(p, X), E=500 MeV]; measured E γ , I γ , $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives by line-shape method using 8pi array. ^{10,11}Be; deduced levels, J, π , branching ratios, B(E1), delayed neutron emission probabilities. JOUR PRVCA 80 034318
- 2009WAZY RADIOACTIVITY ^{7,11}Be; measured laser-microwave spectra; deduced hyperfine splittings, nuclear magnetic moment, magnetization radii. Ion trap at SLOWRI facility. CONF Tokai (Perspective in Nuc Phys), Proc.P109,Wade
- ¹¹B 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π^-), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π . Comparison with other data. JOUR PYLBB 681 139
- 2009BA42 NUCLEAR REACTIONS ¹²C(⁸Li, ⁸Li), (⁸Li, ⁹Be)¹¹B, E=23.9 MeV; measured particle spectra, σ , $\sigma(\theta)$; deduced spectroscopic factors. Optical-model analysis with Woods-Saxon and double-folding Sao Paulo potential. Coupled-channel analysis for breakup and inelastic channels. Comparison of spectroscopic factors with shell-model calculations and previous experimental data. JOUR PRVCA 80 034617
- 2009ISZZ NUCLEAR REACTIONS ⁸Li(α , n), E(cm)=0.7-2.6 MeV; ⁸Li(d, t), E=0.3-1.2 MeV / nucleon; ¹²B(α , n), E(cm)=1.1-3.6 MeV; measured E(particle), I(particle); deduced σ , reaction rates. Compared to other data and predictions, discussed reaction paths of r-process. CONF Tokai (Perspective in Nuc Phys), Proc.P177,Ishiyama

A=12

- ¹²Be 2009IMZY RADIOACTIVITY ¹²Be; measured E γ , I γ using Doppler attenuation; deduced proton matrix element, neutron quadrupole matrix element. Indication of a loss of magicity at N=8. CONF Tokai (Perspective in Nuc Phys), Proc.P265,Imai
- ¹²B 2009DI06 RADIOACTIVITY ¹²N(β^+)[from ¹²C(p, n), E=28 MeV], ¹²B(β^-)[from ¹¹B(d, p), E=10 MeV]; measured E α , E γ , $\alpha\alpha\alpha$ -coin. ¹²C; deduced levels, J, π , triple- α continuum states and their decay modes. R-matrix analysis. JOUR PRVCA 80 034316

A=12 (*continued*)

- 2009HY02 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, E=28 MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, E=10 MeV]; $^{20}\text{Na}(\beta^+)$ [from $^{24}\text{Mg}(\text{p}, \text{n}\alpha)$, E not given]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $E\beta$, $\beta\gamma^-$, $\beta\alpha^-$, $\alpha\alpha\alpha$ -coin. ^{12}C , ^{20}Ne ; deduced levels, β feedings, and logft. Triple- α method and R-matrix analysis. IGISOL-JYFL facility. JOUR PRVCA 80 044304
- ^{12}C 2009AD08 NUCLEAR REACTIONS $^{12}\text{C}(^{18}\text{O}, \alpha^{14}\text{C})$, E=94.5 MeV; measured reaction fragments, excitation energy spectra, angular correlation spectra, sequential breakup σ . Comparison with CDCC-FRESCO calculations. JOUR IMPEE 18 1917
- 2009AG11 NUCLEAR REACTIONS $^{6,7}\text{Li}$, ^9Be , ^{12}C , $^{16}\text{O}(\text{K}^-, \pi^-)$, E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ^7Li , ^{11}B , ^{15}N ; deduced hypernucleus ground-state J, π . Comparison with other data. JOUR PYLBB 681 139
- 2009BA42 NUCLEAR REACTIONS $^{12}\text{C}(^8\text{Li}, ^8\text{Li})$, $(^8\text{Li}, ^9\text{Be})^{11}\text{B}$, E=23.9 MeV; measured particle spectra, σ , $\sigma(\theta)$; deduced spectroscopic factors. Optical-model analysis with Woods-Saxon and double-folding Sao Paulo potential. Coupled-channel analysis for breakup and inelastic channels. Comparison of spectroscopic factors with shell-model calculations and previous experimental data. JOUR PRVCA 80 034617
- 2009DI06 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, E=28 MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, E=10 MeV]; measured $E\alpha$, $E\gamma$, $\alpha\alpha\alpha$ -coin. ^{12}C ; deduced levels, J, π , triple- α continuum states and their decay modes. R-matrix analysis. JOUR PRVCA 80 034316
- 2009FR07 NUCLEAR REACTIONS $^{12}\text{C}(\text{p}, \text{p}')$, E=66 MeV; $^{13}\text{C}(\text{p}, \text{p}')$, E=200 MeV; measured $E\text{p}$ and $\sigma(\theta)$. ^{12}C ; deduced levels, J, π , 2+ excitation of the Hoyle state in ^{12}C . Coupled-channel (CCRC) analysis. Implications for the $^8\text{Be}+^4\text{He}$ reaction rate in stellar environments discussed. JOUR PRVCA 80 041303
- 2009HY02 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, E=28 MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, E=10 MeV]; $^{20}\text{Na}(\beta^+)$ [from $^{24}\text{Mg}(\text{p}, \text{n}\alpha)$, E not given]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $E\beta$, $\beta\gamma^-$, $\beta\alpha^-$, $\alpha\alpha\alpha$ -coin. ^{12}C , ^{20}Ne ; deduced levels, β feedings, and logft. Triple- α method and R-matrix analysis. IGISOL-JYFL facility. JOUR PRVCA 80 044304
- 2009KI13 NUCLEAR REACTIONS $^{10}\text{B}(^3\text{He}, \text{p})$, E=4.9 MeV; $^{11}\text{B}(^3\text{He}, \text{d})$, E=8.5 MeV; measured $E\text{p}$, $I\text{p}$, $E\alpha$, $I\alpha$ in complete kinematics. ^{12}C ; deduced γ -ray and α -decay branching ratios from high energy levels, B(M1). Comparison with calculations and other data. JOUR PYLBB 680 44
- ^{12}N 2009DI06 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, E=28 MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, E=10 MeV]; measured $E\alpha$, $E\gamma$, $\alpha\alpha\alpha$ -coin. ^{12}C ; deduced levels, J, π , triple- α continuum states and their decay modes. R-matrix analysis. JOUR PRVCA 80 034316
- 2009HY02 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, E=28 MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, E=10 MeV]; $^{20}\text{Na}(\beta^+)$ [from $^{24}\text{Mg}(\text{p}, \text{n}\alpha)$, E not given]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $E\beta$, $\beta\gamma^-$, $\beta\alpha^-$, $\alpha\alpha\alpha$ -coin. ^{12}C , ^{20}Ne ; deduced levels, β feedings, and logft. Triple- α method and R-matrix analysis. IGISOL-JYFL facility. JOUR PRVCA 80 044304

A=12 (continued)

- ¹²O 2009SU14 NUCLEAR REACTIONS ¹⁴O(p, t), E=51 MeV / nucleon; measured Et, It; deduced an excited state, σ , breakdown of Z=8 shell closure. Comparison with distorted-wave calculations. JOUR PRLTA 103 152503

A=13

- ¹³C 2009FR07 NUCLEAR REACTIONS ¹²C(p, p'), E=66 MeV; ¹³C(p, p'), E=200 MeV; measured Ep and $\sigma(\theta)$. ¹²C; deduced levels, J, π , 2+ excitation of the Hoyle state in ¹²C. Coupled-channel (CCRC) analysis. Implications for the ⁸Be+⁴He reaction rate in stellar environments discussed. JOUR PRVCA 80 041303

A=14

No references found

A=15

- ¹⁵N 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π^-), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π . Comparison with other data. JOUR PYLBB 681 139
- 2009ISZZ NUCLEAR REACTIONS ⁸Li(α , n), E(cm)=0.7-2.6 MeV; ⁸Li(d, t), E=0.3-1.2 MeV / nucleon; ¹²B(α , n), E(cm)=1.1-3.6 MeV; measured E(particle), I(particle); deduced σ , reaction rates. Compared to other data and predictions, discussed reaction paths of r-process. CONF Tokai (Perspective in Nuc Phys), Proc.P177,Ishiyama

A=16

- ¹⁶O 2009AG11 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ¹²C, ¹⁶O(K⁻, π^-), E at rest; measured negative pion energy spectra from decaying hypernucleus; calculated decay widths. ⁷Li, ¹¹B, ¹⁵N; deduced hypernucleus ground-state J, π . Comparison with other data. JOUR PYLBB 681 139
- 2009BE34 NUCLEAR REACTIONS ¹²C(²⁴Mg, X), E=130 MeV; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin using Binary Reaction Spectrometer (BRS) in coincidence with Euroball IV array. ²⁴Mg, ²⁰Ne, ¹⁶O; deduced levels, J, π , deformations. Comparison with shell-model calculations. JOUR PRVCA 80 034604

A=16 (continued)

2009MAZU NUCLEAR REACTIONS $^{12}\text{C}(\alpha, \gamma)$, $E(\text{cm})=1.2, 1.4, 1.6$ MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$ using anti-Compton NaI(Tl) spectrometers; deduced σ , $\sigma(E1)$, $\sigma(E2)$ using fitted angular distribution formula. In future, σ at 300 keV to be deduced from analysis. CONF Tokai (Perspective in Nuc Phys), Proc.P284,Makii

A=17

^{17}N 2009DE34 NUCLEAR MOMENTS $^{17,18}\text{N}$; measured g factors using β -NMR technique on spin-polarized fragment beams; deduced magnetic moments. Comparison with previous experimental results. JOUR PRVCA 80 037306

^{17}O 2009MI23 NUCLEAR REACTIONS $^9\text{Be}(^{13}\text{C}, \alpha)$, $E=90$ MeV; measured $E\alpha$, $I\alpha$, $E(^{13}\text{C})$, $^{13}\text{C}\alpha$ -coin; deduced ^{17}O excitation energy spectrum. ^{17}O ; deduced levels, J, π . Comparison with other data. JOUR ZAANE 41 335

^{17}F 2009HE16 NUCLEAR REACTIONS $^1\text{H}(^{17}\text{F}, \text{p}')$, $E=44.2$ MeV; measured proton spectra, gamma spectra at the REX-ISOLDE facility. $^{14}\text{O}(\alpha, \text{p})^{17}\text{F}$; deduced resonant contribution to the reaction rates of astrophysical significance for hot CNO cycle. JOUR PRVCA 80 042801

A=18

^{18}N 2009DE34 NUCLEAR MOMENTS $^{17,18}\text{N}$; measured g factors using β -NMR technique on spin-polarized fragment beams; deduced magnetic moments. Comparison with previous experimental results. JOUR PRVCA 80 037306

^{18}O 2009BAZT RADIOACTIVITY $^{18}\text{Ne}(\beta^+)$, $^{11}\text{Li}(\beta^-)$, $A=160(\beta^+)$ [from TRIUMF-ISAC]; $^{18}\text{F}(\beta^+)$ [from ^{18}Ne]; measured $E\beta$, $I\beta$, $E\gamma$, $I\gamma$, β - γ -coin.; deduced J, π , transition strengths. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P19,Ball

2009J007 NUCLEAR REACTIONS $^6\text{Li}(^{14}\text{C}, \text{d})$, $E=8.8$ MeV; $^7\text{Li}(^{14}\text{C}, \text{t})$, $E=11.5$ MeV; measured $E\text{d}$, $I\text{d}$, $E\text{t}$, $I\text{t}$, σ , $\sigma(\theta)$. ^{18}O ; deduced levels, J, π . $^{14}\text{C}(\alpha, \gamma)^{18}\text{O}$; deduced astrophysical S factors, reaction rates, and asymptotic normalization coefficients (ANCs). JOUR PRVCA 80 045805

2009MI23 NUCLEAR REACTIONS $^9\text{Be}(^{13}\text{C}, \alpha)$, $E=90$ MeV; measured $E\alpha$, $I\alpha$, $E(^{13}\text{C})$, $^{13}\text{C}\alpha$ -coin; deduced ^{17}O excitation energy spectrum. ^{17}O ; deduced levels, J, π . Comparison with other data. JOUR ZAANE 41 335

2009RE15 ATOMIC MASSES ^{18}O , ^{19}F ; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012507

^{18}F 2009BAZT RADIOACTIVITY $^{18}\text{Ne}(\beta^+)$, $^{11}\text{Li}(\beta^-)$, $A=160(\beta^+)$ [from TRIUMF-ISAC]; $^{18}\text{F}(\beta^+)$ [from ^{18}Ne]; measured $E\beta$, $I\beta$, $E\gamma$, $I\gamma$, β - γ -coin.; deduced J, π , transition strengths. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P19,Ball

A=18 (continued)

- 2009DE42 RADIOACTIVITY $^{19}\text{Ne}(\text{p})$; measured E_{p} , I_{p} ; deduced $\sigma(\theta)$ of emitted protons. JOUR IMPEE 18 2140
- ^{18}Ne 2009BAZT RADIOACTIVITY $^{18}\text{Ne}(\beta^+)$, $^{11}\text{Li}(\beta^-)$, $A=160(\beta^+)$ [from TRIUMF-ISAC]; $^{18}\text{F}(\beta^+)$ [from ^{18}Ne]; measured E_{β} , I_{β} , E_{γ} , I_{γ} , β - γ -coin.; deduced J , π , transition strengths. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P19,Ball

A=19

- ^{19}F 2009RE15 ATOMIC MASSES ^{18}O , ^{19}F ; measured atomic masses using a cryogenic penning trap. JOUR PLRAA 79 012507
- ^{19}Ne 2009DE42 RADIOACTIVITY $^{19}\text{Ne}(\text{p})$; measured E_{p} , I_{p} ; deduced $\sigma(\theta)$ of emitted protons. JOUR IMPEE 18 2140

A=20

- ^{20}Ne 2009BE34 NUCLEAR REACTIONS $^{12}\text{C}(^{24}\text{Mg}, \text{X})$, $E=130$ MeV; measured E_{γ} , I_{γ} , $\gamma\gamma$ -, (fragment) γ -coin using Binary Reaction Spectrometer (BRS) in coincidence with Euroball IV array. ^{24}Mg , ^{20}Ne , ^{16}O ; deduced levels, J , π , deformations. Comparison with shell-model calculations. JOUR PRVCA 80 034604
- 2009HY02 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, $E=28$ MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, $E=10$ MeV]; $^{20}\text{Na}(\beta^+)$ [from $^{24}\text{Mg}(\text{p}, \text{n}\alpha)$, E not given]; measured E_{α} , I_{α} , E_{γ} , I_{γ} , E_{β} , $\beta\gamma$ -, $\beta\alpha$ -, $\alpha\alpha\alpha$ -coin. ^{12}C , ^{20}Ne ; deduced levels, β feedings, and logft. Triple- α method and R-matrix analysis. IGISOL-JYFL facility. JOUR PRVCA 80 044304
- 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, $(\beta^+\text{p})$, $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, \text{X})$, $E=100$ MeV / nucleon]; measured E_{γ} , I_{γ} , E_{p} , I_{p} , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(\text{GT})$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured E_{γ} . Comparison with shell-model calculation. Comparison of $B(\text{GT})$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- ^{20}Na 2009HY02 RADIOACTIVITY $^{12}\text{N}(\beta^+)$ [from $^{12}\text{C}(\text{p}, \text{n})$, $E=28$ MeV], $^{12}\text{B}(\beta^-)$ [from $^{11}\text{B}(\text{d}, \text{p})$, $E=10$ MeV]; $^{20}\text{Na}(\beta^+)$ [from $^{24}\text{Mg}(\text{p}, \text{n}\alpha)$, E not given]; measured E_{α} , I_{α} , E_{γ} , I_{γ} , E_{β} , $\beta\gamma$ -, $\beta\alpha$ -, $\alpha\alpha\alpha$ -coin. ^{12}C , ^{20}Ne ; deduced levels, β feedings, and logft. Triple- α method and R-matrix analysis. IGISOL-JYFL facility. JOUR PRVCA 80 044304
- 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, $(\beta^+\text{p})$, $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, \text{X})$, $E=100$ MeV / nucleon]; measured E_{γ} , I_{γ} , E_{p} , I_{p} , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(\text{GT})$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured E_{γ} . Comparison with shell-model calculation. Comparison of $B(\text{GT})$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302

A=20 (continued)

- 2009SC23 NUCLEAR REACTIONS Ti(^{20}Na , $^{20}\text{Na}'$), $E=1.7$ MeV / nucleon; measured particle spectra, $E\alpha$, $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (particle) γ -coin, angular correlations and γ -ray yield. ^{20}Na , ^{48}Ti ; deduced levels, J , π , mixing ratios, transition matrix elements, $B(M1)$, $B(E2)$, and static electric quadrupole moments. Tigress and Bambino arrays at TRIUMF-ISAC facility. GOSIA analysis of Coulomb excitation data. Comparisons with shell-model calculations using the USD, USDB and p-sd effective interactions employing OXBASH shell-model code, and with results for ^{20}F mirror nucleus. JOUR PRVCA 80 044325
- 2009SC23 NUCLEAR MOMENTS ^{20}Na , ^{48}Ti ; deduced static electric quadrupole moments from Coulomb excitation experiment. JOUR PRVCA 80 044325

A=21

- ^{21}Ne 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(GT)$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(GT)$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- ^{21}Na 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(GT)$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(GT)$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302

A=22

- ^{22}Na 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(GT)$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(GT)$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- ^{22}Mg 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(GT)$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(GT)$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302

A=23

- ²³Ne 2009SA38 ATOMIC MASSES ²³Al, ²³Mg; measured masses with JYFLTRAP Penning trap spectrometer using ²³Na as a reference. ²³Al, ²³Mg, ²³Na, ²³Ne; analyzed isobaric multiplet mass equation (IMME) for T=3 / 2 system. JOUR PRVCA 80 044330
- ²³Na 2009IC05 RADIOACTIVITY ²⁴Si(β^+), (β^+ p), ²³Al(β^+)[from ⁹Be(²⁸Si, X), E=100 MeV / nucleon]; measured E γ , I γ , Ep, Ip, $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ²⁴Al, ²³Mg; deduced levels, J, π , β^+ and delayed-proton emission probabilities, logft, and B(GT) strengths. ^{20,21}Na, ^{22,23}Mg, ²⁴Al(β^+); measured E γ . Comparison with shell-model calculation. Comparison of B(GT) strengths from ²⁴Si and ²⁴Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- 2009SA38 ATOMIC MASSES ²³Al, ²³Mg; measured masses with JYFLTRAP Penning trap spectrometer using ²³Na as a reference. ²³Al, ²³Mg, ²³Na, ²³Ne; analyzed isobaric multiplet mass equation (IMME) for T=3 / 2 system. JOUR PRVCA 80 044330
- ²³Mg 2009IC05 RADIOACTIVITY ²⁴Si(β^+), (β^+ p), ²³Al(β^+)[from ⁹Be(²⁸Si, X), E=100 MeV / nucleon]; measured E γ , I γ , Ep, Ip, $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ²⁴Al, ²³Mg; deduced levels, J, π , β^+ and delayed-proton emission probabilities, logft, and B(GT) strengths. ^{20,21}Na, ^{22,23}Mg, ²⁴Al(β^+); measured E γ . Comparison with shell-model calculation. Comparison of B(GT) strengths from ²⁴Si and ²⁴Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- 2009SA38 ATOMIC MASSES ²³Al, ²³Mg; measured masses with JYFLTRAP Penning trap spectrometer using ²³Na as a reference. ²³Al, ²³Mg, ²³Na, ²³Ne; analyzed isobaric multiplet mass equation (IMME) for T=3 / 2 system. JOUR PRVCA 80 044330
- ²³Al 2009IC05 RADIOACTIVITY ²⁴Si(β^+), (β^+ p), ²³Al(β^+)[from ⁹Be(²⁸Si, X), E=100 MeV / nucleon]; measured E γ , I γ , Ep, Ip, $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ²⁴Al, ²³Mg; deduced levels, J, π , β^+ and delayed-proton emission probabilities, logft, and B(GT) strengths. ^{20,21}Na, ^{22,23}Mg, ²⁴Al(β^+); measured E γ . Comparison with shell-model calculation. Comparison of B(GT) strengths from ²⁴Si and ²⁴Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- 2009SA38 ATOMIC MASSES ²³Al, ²³Mg; measured masses with JYFLTRAP Penning trap spectrometer using ²³Na as a reference. ²³Al, ²³Mg, ²³Na, ²³Ne; analyzed isobaric multiplet mass equation (IMME) for T=3 / 2 system. JOUR PRVCA 80 044330

A=24

- ²⁴Na 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=24 (continued)

- 2009SI28 NUCLEAR REACTIONS ^{197}Au , ^{181}Ta , $^{93}\text{Nb}(\alpha, n)$, ^{197}Au , $^{181}\text{Ta}(\alpha, 2n)$, $^{181}\text{Ta}(\alpha, 3n)$, $^{197}\text{Au}(\alpha, 2pn)$, $^{93}\text{Nb}(\alpha, 2p)$, ^{197}Au , $^{93}\text{Nb}(\alpha, an)$, $^{27}\text{Al}(\alpha, \alpha 2pn)$, $E=18-60$ MeV; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- 2009SZ03 NUCLEAR REACTIONS $^{192}\text{Os}(p, \alpha 3n)$, $^{186}\text{W}(p, n)$, $(d, 2n)$, $\text{Cu}(p, X)^{65}\text{Zn}$, $\text{Al}(p, X)^{24}\text{Na}$, $E<66.7$ MeV; measured reaction products, $E\gamma$, $I\gamma$; deduced σ , uncertainties. JOUR JRNCD 282 261
- 2010TA01 NUCLEAR REACTIONS $^{133}\text{Cs}(p, x)^{128}\text{Ba}$ / ^{129}Ba / ^{133}Ba / ^{127}Cs / ^{129}Cs / ^{132}Cs / ^{125}Xe / ^{127}Xe / ^{129}Xe , $\text{Ti}(p, x)^{48}\text{V}$, $\text{Al}(p, x)^{24}\text{Na}$, $E < 70$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
- ^{24}Mg 2009BE34 NUCLEAR REACTIONS $^{12}\text{C}(^{24}\text{Mg}, X)$, $E=130$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (fragment) γ -coin using Binary Reaction Spectrometer (BRS) in coincidence with Euroball IV array. ^{24}Mg , ^{20}Ne , ^{16}O ; deduced levels, J , π , deformations. Comparison with shell-model calculations. JOUR PRVCA 80 034604
- 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(\text{GT})$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(\text{GT})$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- ^{24}Al 2007K0ZM NUCLEAR REACTIONS $^{24}\text{Al}(^{134}\text{Xe}, ^{134}\text{Xe}')$, $E=410$ MeV; measured $E\gamma$, $I\gamma$, particle- γ -coin, Coulomb excitation. Data analysis in progress. REPT JAEA-Review 2007-046,P30,Koizumi
- 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(\text{GT})$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(\text{GT})$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302
- ^{24}Si 2009IC05 RADIOACTIVITY $^{24}\text{Si}(\beta^+)$, (β^+p) , $^{23}\text{Al}(\beta^+)$ [from $^9\text{Be}(^{28}\text{Si}, X)$, $E=100$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, E_p , I_p , $\beta\gamma$ -, $\gamma\gamma$ -coin, half-lives. ^{24}Al , ^{23}Mg ; deduced levels, J , π , β^+ and delayed-proton emission probabilities, logft, and $B(\text{GT})$ strengths. $^{20,21}\text{Na}$, $^{22,23}\text{Mg}$, $^{24}\text{Al}(\beta^+)$; measured $E\gamma$. Comparison with shell-model calculation. Comparison of $B(\text{GT})$ strengths from ^{24}Si and ^{24}Ne decays. RIKEN-RIPS facility. JOUR PRVCA 80 044302

A=25

- ²⁵Mg 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ²⁵Al 2009PI13 NUCLEAR REACTIONS ²⁸Si(p, α), E=40, 42 MeV; measured Eα, Iα, σ(θ). ²⁵Al; deduced levels, J, π. DWBA analysis of σ(θ). JOUR PRVCA 80 038801

A=26

- ²⁶Mg 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β⁻); ²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β⁺); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
- ²⁶Al 2009DE33 NUCLEAR REACTIONS ²⁷Al(³He, t), E=25 MeV; ²⁸Si(³He, α), E=17.5 MeV; measured Et, It, Eα, Iα, Ep, Ip, αp-coin, αp(θ). ²⁷Si; deduced levels, angular momentum transfer, proton branching ratios from resonances. ²⁶Al; deduced levels and feedings from proton decay of unbound states in ²⁷Si. Deduced reaction rates for ^{26m}Al(p, γ) reaction as a function of stellar temperature. JOUR PRVCA 80 035806
- 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β⁻); ²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β⁺); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=27

- ²⁷Mg 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ²⁷Al 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured Eγ, Iγ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=27 (continued)

²⁷Si 2009DE33 NUCLEAR REACTIONS ²⁷Al(³He, t), E=25 MeV; ²⁸Si(³He, α), E=17.5 MeV; measured Et, It, Eα, Iα, Ep, Ip, αp-coin, αp(θ). ²⁷Si; deduced levels, angular momentum transfer, proton branching ratios from resonances. ²⁶Al; deduced levels and feedings from proton decay of unbound states in ²⁷Si. Deduced reaction rates for ^{26m}Al(p, γ) reaction as a function of stellar temperature. JOUR PRVCA 80 035806

A=28

²⁸Al 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

²⁸Si 2008RE16 ATOMIC MASSES ²⁸Si, ³¹P; measured the cyclotron frequency ratios; deduced atomic masses. Cryogenic penning trap. JOUR PRLTA 100 093002

A=29

²⁹Al 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=30

No references found

A=31

³¹P 2008RE16 ATOMIC MASSES ²⁸Si, ³¹P; measured the cyclotron frequency ratios; deduced atomic masses. Cryogenic penning trap. JOUR PRLTA 100 093002

A=32

- ³²S 2009DE37 NUCLEAR REACTIONS ¹²C(²⁰Ne, pX), (²⁰Ne, dX), (²⁰Ne, tX), (²⁰Ne, αX), E=145, 158, 170, 180, 200 MeV; ²⁷Al(²⁰Ne, pX), (²⁰Ne, dX), (²⁰Ne, tX), (²⁰Ne, αX), E=158 MeV; measured $\sigma(\theta, E)$, light-charged-particle energy spectra, (charged-particle)(fragment)-coin; deduced reaction mechanism features, deformation parameters, radius. ³²S; deduced sequential decay chain data. Comparison with the CASCADE statistical model code. JOUR ZAANE 41 39

A=33

- ³³P 2007LIZN NUCLEAR REACTIONS ²⁴Mg(¹⁸O, x)³³P, E=70 MeV; ²⁴Mg(¹⁸O, x)³⁶Si, E=70 MeV; ²⁴Mg(¹⁸O, x)³⁸Ar, E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π . REPT JAEA-Review 2007-046,P25,Liu
- 2009CH43 NUCLEAR REACTIONS ¹⁸O(¹⁸O, X)³³P / ³⁴P / ³³S / ³⁴S, E=34 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, DCO ratios, $\gamma(\text{lin pol})$. ^{33,34}P, ³³S, ³⁴S; deduced levels, J, π , multipolarity, mixing ratios, bands, branching ratios, transition probabilities. Comparison with truncated shell model calculations in the sd_{pf} valence space. JOUR PRVCA 80 034326
- ³³S 2009CH43 NUCLEAR REACTIONS ¹⁸O(¹⁸O, X)³³P / ³⁴P / ³³S / ³⁴S, E=34 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, DCO ratios, $\gamma(\text{lin pol})$. ^{33,34}P, ³³S, ³⁴S; deduced levels, J, π , multipolarity, mixing ratios, bands, branching ratios, transition probabilities. Comparison with truncated shell model calculations in the sd_{pf} valence space. JOUR PRVCA 80 034326

A=34

- ³⁴P 2009CH43 NUCLEAR REACTIONS ¹⁸O(¹⁸O, X)³³P / ³⁴P / ³³S / ³⁴S, E=34 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, DCO ratios, $\gamma(\text{lin pol})$. ^{33,34}P, ³³S, ³⁴S; deduced levels, J, π , multipolarity, mixing ratios, bands, branching ratios, transition probabilities. Comparison with truncated shell model calculations in the sd_{pf} valence space. JOUR PRVCA 80 034326
- ³⁴S 2009CH43 NUCLEAR REACTIONS ¹⁸O(¹⁸O, X)³³P / ³⁴P / ³³S / ³⁴S, E=34 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, DCO ratios, $\gamma(\text{lin pol})$. ^{33,34}P, ³³S, ³⁴S; deduced levels, J, π , multipolarity, mixing ratios, bands, branching ratios, transition probabilities. Comparison with truncated shell model calculations in the sd_{pf} valence space. JOUR PRVCA 80 034326

A=35

No references found

A=36

³⁶ Si	2007LIZN	NUCLEAR REACTIONS ²⁴ Mg(¹⁸ O, x) ³³ P, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁶ Si, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁸ Ar, E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π . REPT JAEA-Review 2007-046,P25,Liu
³⁶ S	2008IDZZ	NUCLEAR REACTIONS ²⁴ Mg(¹⁸ O, x) ³⁶ S, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁶ Cl, E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin., particle- γ -coin. Analysis in progress. REPT JAEA-Review 2008-054,P25,Ideguchi
³⁶ Cl	2008IDZZ	NUCLEAR REACTIONS ²⁴ Mg(¹⁸ O, x) ³⁶ S, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁶ Cl, E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin., particle- γ -coin. Analysis in progress. REPT JAEA-Review 2008-054,P25,Ideguchi
	2009VAZY	RADIOACTIVITY ¹⁰ Be, ³⁶ Cl, ⁶⁰ Fe(β^-); ²⁶ Al, ⁴¹ Ca, ⁵⁹ Ni, ⁵³ Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
³⁶ Ar	2009VAZY	RADIOACTIVITY ¹⁰ Be, ³⁶ Cl, ⁶⁰ Fe(β^-); ²⁶ Al, ⁴¹ Ca, ⁵⁹ Ni, ⁵³ Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=37

³⁷ Cl	2009I001	NUCLEAR REACTIONS ²⁴ Mg(¹⁶ O, 3p), E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, angular distributions, half-lives using Doppler shift attenuation method using GASP array. ³⁷ Cl; deduced levels, J, π , multipolarities, B(M1), B(E2) and configurations. Comparison with large-scale shell model calculations involving sd and fp orbitals using the sdpf and SDPF-M effective interactions. JOUR PRVCA 80 034314
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A=38

³⁸ Cl	2008FUZV	NUCLEAR REACTIONS ²⁷ Al, ^{28,29} Si, ⁴¹ K, ⁵¹ V, ⁶¹ Ni, ⁶⁵ Cu, ^{64,67} Zn, ⁶⁹ Ga, ⁷⁹ Br, ⁹² Mo, ⁹³ Nb(n, p), E=3.5-5.9 MeV; ²⁷ Al, ^{28,29} Si, ⁴¹ K, ⁵¹ V, ⁶¹ Ni, ⁶⁵ Cu, ^{64,67} Zn, ⁶⁹ Ga, ⁷⁹ Br, ⁹² Mo, ⁹³ Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
	2008M0ZV	NUCLEAR REACTIONS ²⁶ Mg(¹⁸ O, x) ³⁸ Cl, E=3.72, 5.0 MeV / nucleon; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π ; calculated E, J, π using shell model. REPT JAEA-Review 2008-054,P27,Morikawa
³⁸ Ar	2007LIZN	NUCLEAR REACTIONS ²⁴ Mg(¹⁸ O, x) ³³ P, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁶ Si, E=70 MeV; ²⁴ Mg(¹⁸ O, x) ³⁸ Ar, E=70 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π . REPT JAEA-Review 2007-046,P25,Liu

A=39

No references found

A=40

- ⁴⁰K 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ; deduced soil natural activities. CONF Brazil (Nuclear Physics 2008) Proc. P153,Silveira
- ⁴⁰Ca 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ; deduced soil natural activities. CONF Brazil (Nuclear Physics 2008) Proc. P153,Silveira

A=41

- ⁴¹Ar 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁴¹K 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
- ⁴¹Ca 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=42

- ⁴²Ca 2009KU19 ATOMIC MASSES ⁴²Ti, ⁴²Sc, ^{42m}Sc, ⁴²Ca; measured mass differences using JYFLTRAP Penning-trap spectrometer; deduced Q values. JOUR PRVCA 80 035502
- ⁴²Sc 2009KU19 RADIOACTIVITY ⁴²Ti(EC); measured E γ , $\beta\gamma$ -coin, half-life, branching ratio, Q value from measured mass differences; deduced logft value for 0+ to 0+ superallowed β transition. JOUR PRVCA 80 035502
- 2009KU19 ATOMIC MASSES ⁴²Ti, ⁴²Sc, ^{42m}Sc, ⁴²Ca; measured mass differences using JYFLTRAP Penning-trap spectrometer; deduced Q values. JOUR PRVCA 80 035502
- ⁴²Ti 2009KU19 RADIOACTIVITY ⁴²Ti(EC); measured E γ , $\beta\gamma$ -coin, half-life, branching ratio, Q value from measured mass differences; deduced logft value for 0+ to 0+ superallowed β transition. JOUR PRVCA 80 035502
- 2009KU19 ATOMIC MASSES ⁴²Ti, ⁴²Sc, ^{42m}Sc, ⁴²Ca; measured mass differences using JYFLTRAP Penning-trap spectrometer; deduced Q values. JOUR PRVCA 80 035502

A=43

- ⁴³S 2009RI11 NUCLEAR REACTIONS ⁹Be(⁴⁴S, X), E=92 MeV / nucleon; ⁹Be(⁴⁵Cl, X), E=98 MeV / nucleon; measured E_γ, I_γ, γγ-coin and σ using SeGA array. ⁴³S; deduced levels, J, π, rotational band and branching ratios. One-neutron knockout and fragmentation reactions. Comparison with shell-model calculations. JOUR PRVCA 80 037305
- ⁴³Cr 2009BL06 RADIOACTIVITY ⁴⁵Fe, ⁴⁸Ni, ⁵⁴Zn(2p) [from Ni(⁵⁸Ni, X)]; measured E_p, I_p, β⁺p-coin for 2p decay mode; ⁵⁹Ge, ⁶³Se, ⁶⁷Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=44

- ⁴⁴Sc 2009KIZY NUCLEAR REACTIONS Mo(n, γ), E=0.01-200 eV; measured I_n; deduced σ; ¹⁸⁶W(n, γ), E=thermal; ⁹⁸Mo(n, γ), E=thermal; measured I_n relative to ¹⁹⁷Au(n, γ); deduced σ, resonance integral; ⁴⁵Sc(γ, n), E=65 MeV; Ti(γ, x)⁴⁴Sc, E=65 MeV; ¹⁰³Rh(γ, 4n), E=65 MeV; Fe(γ, x)⁵²Mn, E=65 MeV; measured E_γ, I_γ; deduced σ, isomeric transition. Compared to other data. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P72, Kim

A=45

- ⁴⁵Ti 2009SY02 NUCLEAR REACTIONS ⁴⁶Ti(p, d), E=32 MeV; measured E_γ, (particle)γ-coin; deduced level densities, γ-ray strength function, entropy, temperature, and spin distributions using Oslo method. Comparison of measured level densities with combinatorial BCS model calculations using Nilsson orbitals, and measured γ-ray strength functions with generalized Lorentzian model calculations. JOUR PRVCA 80 044309
- ⁴⁵Fe 2009BL06 RADIOACTIVITY ⁴⁵Fe, ⁴⁸Ni, ⁵⁴Zn(2p) [from Ni(⁵⁸Ni, X)]; measured E_p, I_p, β⁺p-coin for 2p decay mode; ⁵⁹Ge, ⁶³Se, ⁶⁷Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=46

- ⁴⁶Fe 2009BL06 RADIOACTIVITY ⁴⁵Fe, ⁴⁸Ni, ⁵⁴Zn(2p) [from Ni(⁵⁸Ni, X)]; measured E_p, I_p, β⁺p-coin for 2p decay mode; ⁵⁹Ge, ⁶³Se, ⁶⁷Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=47

No references found

A=48

- ⁴⁸Ca 2009KI19 RADIOACTIVITY ⁴⁸Ca($2\beta^-$); measured energy of electrons, radioactive background; deduced $T_{1/2}$ for $0\nu\beta\beta$ -decay, neutrino mass limit. CaF₂(Eu) crystals. JOUR IMPEE 18 2129
- 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- ⁴⁸Sc 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- 2009SA48 NUCLEAR REACTIONS ⁴⁸Ca, ¹¹⁶Cd(p, n), ⁴⁸Ti, ¹¹⁶Sn(n, p), E=300 MeV; measured $\sigma(\theta, E)$; deduced GT plus IVSM strength distributions. Comparison with fp-shell model space and GXPF1A interaction. JOUR IMPEE 18 2119
- 2009YAZX NUCLEAR REACTIONS ⁴⁸Ca(p, n), E=295 MeV; measured En, In, $\theta(n)$; ⁴⁸Ti(n, p), E=293 MeV; measured Ep, Ip, $\theta(p)$; deduced $d\sigma$; calculated $d\sigma$ using DW81 code, transition strength Gamow-Teller component using multipole decomposition. CONF Tokai (Perspective in Nuc Phys), Proc.P47,Yako
- ⁴⁸Ti 2009KI19 RADIOACTIVITY ⁴⁸Ca($2\beta^-$); measured energy of electrons, radioactive background; deduced $T_{1/2}$ for $0\nu\beta\beta$ -decay, neutrino mass limit. CaF₂(Eu) crystals. JOUR IMPEE 18 2129
- 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- 2009SC23 NUCLEAR REACTIONS Ti(²⁰Na, ²⁰Na'), E=1.7 MeV / nucleon; measured particle spectra, E α , E γ , I γ , $\gamma\gamma^-$, (particle) γ -coin, angular correlations and γ -ray yield. ²⁰Na, ⁴⁸Ti; deduced levels, J, π , mixing ratios, transition matrix elements, B(M1), B(E2), and static electric quadrupole moments. Tigris and Bambino arrays at TRIUMF-ISAC facility. GOSIA analysis of Coulomb excitation data. Comparisons with shell-model calculations using the USD, USDB and p-sd effective interactions employing OXBASH shell-model code, and with results for ²⁰F mirror nucleus. JOUR PRVCA 80 044325
- 2009SC23 NUCLEAR MOMENTS ²⁰Na, ⁴⁸Ti; deduced static electric quadrupole moments from Coulomb excitation experiment. JOUR PRVCA 80 044325
- ⁴⁸V 2009HE15 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, ¹⁸¹Ta(d, 2n), (d, p), (d, p2n), (d, 4np), (d, xn2p), E<45 MeV; ¹⁷⁹Hf, ¹⁸⁰Hf; measured X-ray, E γ , I γ ; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
- 2009SI24 NUCLEAR REACTIONS Ti(t, X)⁴⁸V, E=2.74 MeV; measured E γ , I γ ; deduced isotope yields. JOUR RAACA 465 543

A=48 (continued)

- 2010TA01 NUCLEAR REACTIONS $^{133}\text{Cs}(p, x)^{128}\text{Ba}$ / ^{129}Ba / ^{133}Ba / ^{127}Cs / ^{129}Cs / ^{132}Cs / ^{125}Xe / ^{127}Xe / ^{129}Xe , $\text{Ti}(p, x)^{48}\text{V}$, $\text{Al}(p, x)^{24}\text{Na}$, $E < 70$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
- ^{48}Ni 2009BL06 RADIOACTIVITY ^{45}Fe , ^{48}Ni , $^{54}\text{Zn}(2p)$ [from $\text{Ni}(^{58}\text{Ni}, X)$]; measured E_p , I_p , β^+ -p-coin for 2p decay mode; ^{59}Ge , ^{63}Se , ^{67}Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=49

No references found

A=50

- ^{50}Cl 2009TA24 NUCLEAR REACTIONS ^9Be , $\text{W}(^{76}\text{Ge}, X)^{50}\text{Cl}$ / ^{53}Ar / ^{55}K / ^{56}K / ^{57}Ca / ^{58}Ca / ^{59}Sc / ^{60}Sc / ^{61}Sc / ^{62}Ti / ^{63}Ti / ^{65}V / ^{66}V / ^{68}Cr / ^{70}Mn , $E=132$ MeV / nucleon; measured fragment yields, production σ for $A=33-74$, $Z=13-29$ nuclides, longitudinal momentum distributions for $Z=17-25$ nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ^{50}Mn 2009FU15 NUCLEAR REACTIONS ^{50}Cr , ^{58}Ni , $^{56}\text{Fe}(^3\text{He}, t)$, $E=140$ MeV / nucleon; measured reaction products; deduced GT transition strengths. JOUR IMPEE 18 2134

A=51

- ^{51}Ti 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, $E=3.5-5.9$ MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, $E=3.5-5.9$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ^{51}V 2009LIZY NUCLEAR REACTIONS $^{51}\text{V}(^8\text{Li}, ^8\text{Li})$, $E=26$ MeV; $^{51}\text{V}(^6\text{He}, ^6\text{He})$, $E=15.4, 23$ MeV; $^{120}\text{Sn}(^6\text{He}, ^6\text{He})$, $E=17.4, 17.1, 19.8, 20.5$ MeV; measured $E(\text{particle})$, $\theta(\text{particle})$, $I(\text{particle})$; deduced $d\sigma$; calculated $d\sigma$ using CDCC; $^{120}\text{Sn}(^6\text{He}, \alpha)$, $E=17.4, 17.1, 19.8, 20.5$ MeV; measured $E\alpha$, $I\alpha$, $\theta\alpha$; deduced $d\sigma$; calculated $d\sigma$ using CDCC and Transfer-to-Continuum DWBA; $^{120}\text{Sn}(^6\text{He}, ^5\text{He})$, $E=17.4, 17.1, 19.8, 20.5$ MeV; calculated $d\sigma$. RIBRAS system. CONF Brazil (Nuclear Physics 2008) Proc. P76,Lichtenthaler

A=52

- ⁵²Mn 2009KIZY NUCLEAR REACTIONS Mo(n, γ), E=0.01-200 eV; measured In; deduced σ ; ¹⁸⁶W(n, γ), E=thermal; ⁹⁸Mo(n, γ), E=thermal; measured In relative to ¹⁹⁷Au(n, γ); deduced σ , resonance integral; ⁴⁵Sc(γ , n), E=65 MeV; Ti(γ , x)⁴⁴Sc, E=65 MeV; ¹⁰³Rh(γ , 4n), E=65 MeV; Fe(γ , x)⁵²Mn, E=65 MeV; measured E γ , I γ ; deduced σ , isomeric transition. Compared to other data. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P72, Kim
- ⁵²Ni 2009BL06 RADIOACTIVITY ⁴⁵Fe, ⁴⁸Ni, ⁵⁴Zn(2p) [from Ni(⁵⁸Ni, X)]; measured Ep, Ip, β^+ p-coin for 2p decay mode; ⁵⁹Ge, ⁶³Se, ⁶⁷Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=53

- ⁵³Ar 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵³Cr 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
- ⁵³Mn 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
- 2009WAZZ NUCLEAR REACTIONS ⁵⁴Fe(n, np), E \approx 13.4-14.9 MeV; ⁵⁴Fe(n, d), E \approx 13.4-14.9 MeV; ⁵⁴Fe(n, 2n), E \approx 13.4-14.9 MeV; measured ⁵³Mn yield using accelerator mass spectrometry; deduced σ as the sum of all three reactions. Compared to ENDF-B / VII and other data. REPT MLL 2008 Annual,P28,Wallner
- ⁵³Fe 2009WAZZ NUCLEAR REACTIONS ⁵⁴Fe(n, np), E \approx 13.4-14.9 MeV; ⁵⁴Fe(n, d), E \approx 13.4-14.9 MeV; ⁵⁴Fe(n, 2n), E \approx 13.4-14.9 MeV; measured ⁵³Mn yield using accelerator mass spectrometry; deduced σ as the sum of all three reactions. Compared to ENDF-B / VII and other data. REPT MLL 2008 Annual,P28,Wallner

A=54

- ⁵⁴Zn 2009BL06 RADIOACTIVITY ⁴⁵Fe, ⁴⁸Ni, ⁵⁴Zn(2p) [from Ni(⁵⁸Ni, X)]; measured Ep, Ip, β^+ p-coin for 2p decay mode; ⁵⁹Ge, ⁶³Se, ⁶⁷Kr deduced as new two-proton radioactivity candidates. Reviewed sequential and direct 2p decay modes. JOUR IMPEE 18 2124

A=55

- ⁵⁵K 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵⁵Mn 2009CA22 NUCLEAR REACTIONS ⁵⁵Mn(γ , γ'), E<2.8 MeV; measured E γ , I γ and absolute cross sections. ⁵⁵Mn; deduced levels, half-lives and branching ratios. Comparison with previous experimental and evaluated data. JOUR PRVCA 80 037302

A=56

- ⁵⁶K 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵⁶Fe 2009BRZZ RADIOACTIVITY ⁵⁶Co(EC); measured E γ , I γ , circular polarization. Deduced electron neutrino helicity. CONF Cheboksary,P82,Brudanin
- ⁵⁶Co 2009BRZZ RADIOACTIVITY ⁵⁶Co(EC); measured E γ , I γ , circular polarization. Deduced electron neutrino helicity. CONF Cheboksary,P82,Brudanin
- 2009FU15 NUCLEAR REACTIONS ⁵⁰Cr, ⁵⁸Ni, ⁵⁶Fe(³He, t), E=140 MeV / nucleon; measured reaction products; deduced GT transition strengths. JOUR IMPEE 18 2134

A=57

- ⁵⁷Ca 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵⁷Co 2009HU13 NUCLEAR REACTIONS ⁵⁸Ni(α , α' p), E=386 MeV; measured E α , I α , α p-coin, σ , $\sigma(\theta)$, and width. ⁵⁸Ni; deduced isoscalar giant dipole resonance (ISGDR), associated resonance parameters and branching ratios for proton decays to ⁵⁷Co; analyzed EWSR. ⁵⁷Co; deduced levels, J, π . Grand Raiden spectrometer at RCNP facility. Proton branching ratios compared with continuum-RPA calculations. JOUR PRVCA 80 044317

A=57 (continued)

- ⁵⁷Ni 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ⁵⁷Cu 2009JI08 NUCLEAR REACTIONS ³He(⁵⁶Ni, d), E=250 MeV; measured Ed, Id, σ , $\sigma(\theta)$. ⁵⁷Cu; deduced levels, J, π , spectroscopic factors. DWBA analysis. Discussed implications for ⁵⁶Ni(p, γ)⁵⁷Cu reaction of astrophysical interest. JOUR PRVCA 80 044613

A=58

- ⁵⁸Ca 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵⁸Fe 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁵⁸Ni 2009HU13 NUCLEAR REACTIONS ⁵⁸Ni(α , α' p), E=386 MeV; measured E α , I α , α p-coin, σ , $\sigma(\theta)$, and width. ⁵⁸Ni; deduced isoscalar giant dipole resonance (ISGDR), associated resonance parameters and branching ratios for proton decays to ⁵⁷Co; analyzed EWSR. ⁵⁷Co; deduced levels, J, π . Grand Raiden spectrometer at RCNP facility. Proton branching ratios compared with continuum-RPA calculations. JOUR PRVCA 80 044317
- ⁵⁸Cu 2009FU15 NUCLEAR REACTIONS ⁵⁰Cr, ⁵⁸Ni, ⁵⁶Fe(³He, t), E=140 MeV / nucleon; measured reaction products; deduced GT transition strengths. JOUR IMPEE 18 2134
- ⁵⁸Zn 2009FU15 RADIOACTIVITY ⁵⁸Zn(β^-) [from Ni(⁶⁴Zn, X)]; measured E γ , I γ ; deduced T_{1/2}. JOUR IMPEE 18 2134
- ⁵⁸Ga 2009FU15 RADIOACTIVITY ⁵⁸Zn(β^-) [from Ni(⁶⁴Zn, X)]; measured E γ , I γ ; deduced T_{1/2}. JOUR IMPEE 18 2134

A=59

- ⁵⁹Sc 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁵⁹Co 2008WAZW RADIOACTIVITY ⁵⁹Ni(EC); analyzed prior T_{1/2} measurement that relied on n-capture *snuff* for ⁵⁴Fe. CONF Nice (Nucl Data for Sci and Technol) Proc,P1007
- 2009GUZY NUCLEAR REACTIONS ⁶²Ni(p, α), E=23 MeV using polarized p; measured E α , I α , $\theta\alpha$; deduced $\sigma(\theta)$, analyzing power, J, π , optical model parameters. Computer code TWOFNR. REPT MLL 2008 Annual,P6,Guazzoni
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela
- ⁵⁹Ni 2008WAZW NUCLEAR REACTIONS ⁶⁰Ni(n, 2n), E=17, 19 MeV; measured reaction fragments, E γ , I γ ; deduced σ . AMS, comparison with other measurements and evaluations. CONF Nice (Nucl Data for Sci and Technol) Proc,P1007
- 2008WAZW RADIOACTIVITY ⁵⁹Ni(EC); analyzed prior T_{1/2} measurement that relied on n-capture *snuff* for ⁵⁴Fe. CONF Nice (Nucl Data for Sci and Technol) Proc,P1007
- 2009DIZZ NUCLEAR REACTIONS ⁵⁸Ni(n, γ), E = low (simulation of Maxwellian distribution at kT=25 keV); measured ⁵⁹Ni yield using AMS; deduced σ . Compared to other data. REPT MLL 2008 Annual,P29,Dillmann
- 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=60

- ⁶⁰Sc 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁶⁰Fe 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-);²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=60 (continued)

- ⁶⁰Co 2009G06 NUCLEAR REACTIONS ⁵⁸Fe(⁶Li, X), E=15 MeV; ⁵⁷Fe(⁷Li, X), E=15 MeV; measured particle spectra, σ , angular distributions; deduced optical model parameters. ⁶⁰Co, ⁶³Ni; deduced level densities. Comparison with Hauser-Feshbach model calculations. JOUR PRVCA 80 034305
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- 2009VAZY RADIOACTIVITY ¹⁰Be, ³⁶Cl, ⁶⁰Fe(β^-); ²⁶Al, ⁴¹Ca, ⁵⁹Ni, ⁵³Mn(β^+); measured E(e), I(e); deduced age of the crater. REPT MLL 2008 Annual,P25,Valenzuela

A=61

- ⁶¹Sc 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁶¹Co 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁶¹Ni 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=62

- ⁶²Ti 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609

A=62 (continued)

- ⁶²Co 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁶²Zn 2009SI22 NUCLEAR REACTIONS Cu(p, X)⁶²Zn / ⁶³Zn / ⁶⁵Zn, E=7-16.5 MeV; measured E γ , I γ ; deduced σ . Comparison with the IAEA Charged particle cross section database for medical radioisotope production. JOUR ARISE 67 2037
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=63

- ⁶³Ti 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁶³Ni 2007TSZY NUCLEAR REACTIONS ²H(⁶²Ni, p), E=3.5 MeV / nucleon; measured E p , I p , $\theta(p)$; deduced σ ; calculated spectroscopic factor. Experimental value still to be deduced. REPT JAEA-Review 2007-046,P49,Tshoo
- 20090G06 NUCLEAR REACTIONS ⁵⁸Fe(⁶Li, X), E=15 MeV; ⁵⁷Fe(⁷Li, X), E=15 MeV; measured particle spectra, σ , angular distributions; deduced optical model parameters. ⁶⁰Co, ⁶³Ni; deduced level densities. Comparison with Hauser-Feshbach model calculations. JOUR PRVCA 80 034305
- ⁶³Zn 2009LEZY NUCLEAR REACTIONS ⁶⁴Zn(d, t), E=22 MeV; measured E t , I t , $\theta(t)$ with polarized d; deduced J, π , $\sigma(\theta)$, analyzing powers. REPT MLL 2008 Annual,P7,Leach
- 2009SI22 NUCLEAR REACTIONS Cu(p, X)⁶²Zn / ⁶³Zn / ⁶⁵Zn, E=7-16.5 MeV; measured E γ , I γ ; deduced σ . Comparison with the IAEA Charged particle cross section database for medical radioisotope production. JOUR ARISE 67 2037

A=64

- ⁶⁴Ni 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁶⁴Cu 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁶⁴Zn 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured Eγ, Iγ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=65

- ⁶⁵V 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁶⁵Ni 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured Eγ, Iγ; deduced σ. Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁶⁵Cu 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured Eγ, Iγ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ⁶⁵Zn 2009SI22 NUCLEAR REACTIONS Cu(p, X)⁶²Zn / ⁶³Zn / ⁶⁵Zn, E=7-16.5 MeV; measured Eγ, Iγ; deduced σ. Comparison with the IAEA Charged particle cross section database for medical radioisotope production. JOUR ARISE 67 2037
- 2009SZ03 NUCLEAR REACTIONS ¹⁹²Os(p, α3n), ¹⁸⁶W(p, n), (d, 2n), Cu(p, X)⁶⁵Zn, Al(p, X)²⁴Na, E<66.7 MeV; measured reaction products, Eγ, Iγ; deduced σ, uncertainties. JOUR JRNCD 282 261

A=65 (continued)

2009TI09 NUCLEAR REACTIONS ^{59}Co , ^{197}Au , ^{181}Ta , $^{64}\text{Zn}(n, \gamma)$, ^{59}Co , ^{27}Al , ^{181}Ta , ^{115}In , ^{64}Zn , ^{65}Cu , $^{115}\text{In}(n, n')$, $\text{Pb}(p, xn)^{203}\text{Bi}$ / ^{204}Bi / ^{205}Bi / ^{206}Bi , $\text{In}(p, xn)^{113}\text{Sn}$, ^{59}Co , $^{209}\text{Bi}(p, 3n)$, $^{63}\text{Cu}(p, 2n)$, ^{209}Bi , ^{169}Tm , ^{93}Nb , $^{65}\text{Cu}(p, 4n)$, $E=0.8$ GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=66

^{66}V 2009TA24 NUCLEAR REACTIONS ^9Be , $\text{W}(^{76}\text{Ge}, X)^{50}\text{Cl}$ / ^{53}Ar / ^{55}K / ^{56}K / ^{57}Ca / ^{58}Ca / ^{59}Sc / ^{60}Sc / ^{61}Sc / ^{62}Ti / ^{63}Ti / ^{65}V / ^{66}V / ^{68}Cr / ^{70}Mn , $E=132$ MeV / nucleon; measured fragment yields, production σ for $A=33-74$, $Z=13-29$ nuclides, longitudinal momentum distributions for $Z=17-25$ nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609

^{66}Cu 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, $E=3.5-5.9$ MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, $E=3.5-5.9$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=67

^{67}Cu 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, $E=3.5-5.9$ MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, $E=3.5-5.9$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

^{67}As 2009WIZX NUCLEAR REACTIONS $^{40}\text{Ca}(^{32}\text{S}, x)^{67}\text{As}$, $E=90$ MeV; $^{40}\text{Ca}(^{32}\text{S}, x)^{67}\text{Se}$, $E=90$ MeV; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$, E_n , I_n , E_p , I_p , $\gamma\gamma\gamma$ -coin., $\gamma\gamma\alpha n$ -coin., $\gamma\gamma\alpha p$ -coin.; deduced J , π , E using ADO analysis, σ using fusion evaporation code PACE, $B(E1)$, $B(M2)$ transition strengths; calculated σ , $B(\lambda)$. CONF Brazil (Nuclear Physics 2008) Proc. P115,Wiedemann

^{67}Se 2009WIZX NUCLEAR REACTIONS $^{40}\text{Ca}(^{32}\text{S}, x)^{67}\text{As}$, $E=90$ MeV; $^{40}\text{Ca}(^{32}\text{S}, x)^{67}\text{Se}$, $E=90$ MeV; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$, E_n , I_n , E_p , I_p , $\gamma\gamma\gamma$ -coin., $\gamma\gamma\alpha n$ -coin., $\gamma\gamma\alpha p$ -coin.; deduced J , π , E using ADO analysis, σ using fusion evaporation code PACE, $B(E1)$, $B(M2)$ transition strengths; calculated σ , $B(\lambda)$. CONF Brazil (Nuclear Physics 2008) Proc. P115,Wiedemann

A=68

- ⁶⁸Cr 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609
- ⁶⁸Se 20090B02 NUCLEAR REACTIONS ¹⁹⁷Au(⁶⁸Se, X), E=92 MeV / nucleon; measured E γ , I γ , (particle) γ -coin, t-o-f method using SeGa array. ⁶⁸Se, ⁷⁸Kr; deduced levels, J, π , B(E2). Coulomb excitation. Systematics of first 2+ states in Z=30-38 self-conjugate nuclei. Comparisons with several theoretical predictions. JOUR PRVCA 80 031304

A=69

- ⁶⁹Zn 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=70

- ⁷⁰Mn 2009TA24 NUCLEAR REACTIONS ⁹Be, W(⁷⁶Ge, X)⁵⁰Cl / ⁵³Ar / ⁵⁵K / ⁵⁶K / ⁵⁷Ca / ⁵⁸Ca / ⁵⁹Sc / ⁶⁰Sc / ⁶¹Sc / ⁶²Ti / ⁶³Ti / ⁶⁵V / ⁶⁶V / ⁶⁸Cr / ⁷⁰Mn, E=132 MeV / nucleon; measured fragment yields, production σ for A=33-74, Z=13-29 nuclides, longitudinal momentum distributions for Z=17-25 nuclides, time-of-flight. Comparison with various model calculations. JOUR PRVCA 80 034609

A=71

- ⁷¹Cu 2009FL03 NUCLEAR MOMENTS ^{71,73,75}Cu; measured hfs spectra; deduced ground-state spins, magnetic moments, hyperfine parameters, shell inversion. Comparison with large-scale shell-model calculation. JOUR PRLTA 103 142501

A=72

No references found

A=73

⁷³Cu 2009FL03 NUCLEAR MOMENTS ^{71,73,75}Cu; measured hfs spectra; deduced ground-state spins, magnetic moments, hyperfine parameters, shell inversion. Comparison with large-scale shell-model calculation. JOUR PRLTA 103 142501

A=74

⁷⁴Ge 2009FA08 RADIOACTIVITY ⁷⁴As(β^-), (β^+), (EC); measured E_γ , I_γ at different temperatures; deduced branching ratios, no significant dependence on temperature. JOUR JPGPE 36 105101

⁷⁴As 2009FA08 RADIOACTIVITY ⁷⁴As(β^-), (β^+), (EC); measured E_γ , I_γ at different temperatures; deduced branching ratios, no significant dependence on temperature. JOUR JPGPE 36 105101

⁷⁴Se 2009FA08 RADIOACTIVITY ⁷⁴As(β^-), (β^+), (EC); measured E_γ , I_γ at different temperatures; deduced branching ratios, no significant dependence on temperature. JOUR JPGPE 36 105101

⁷⁴Kr 2009LI45 NUCLEAR REACTIONS ⁵⁸Ni, ²⁰⁸Pb(¹⁷F, p), E=10 MeV / nucleon; measured E_p , I_p , (fragment)p-coin, $\sigma(\theta)$ using silicon strip detectors. Comparison with first-order perturbation and dynamical calculations and effect of dynamic polarization discussed. JOUR PYLBB 681 22

A=75

⁷⁵Cu 2009FL03 NUCLEAR MOMENTS ^{71,73,75}Cu; measured hfs spectra; deduced ground-state spins, magnetic moments, hyperfine parameters, shell inversion. Comparison with large-scale shell-model calculation. JOUR PRLTA 103 142501

⁷⁵Ge 2009AT03 NUCLEAR REACTIONS ⁷⁶Ge(n, 2n), ⁷⁵As(n, p), ⁷⁸Se(n, α), E=13.73, 14.42, 14.77 MeV; measured E_γ , I_γ , σ for ground and metastable state production using the activation technique. Comparison with EMPIRE and TALYS codes. ⁷⁶Ge(n, 2n), ⁷⁵As(n, p), ⁷⁸Se(n, α), E=threshold-20 MeV; calculated σ for ground and metastable state production using EMPIRE and TALYS codes. Comparison with data. JOUR NUPAB 828 253

⁷⁵Br 2009MU16 NUCLEAR REACTIONS ⁵¹V(²⁸Si, 2n2p), E=115 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin with HPGe detectors. ⁷⁵Br; deduced high spin states $T_{1/2}$, B(E2), band configurations using DSA, transition quadrupole moments and deformation parameters. Comparison with cranking model and total Routhian surface calculations. JOUR NUPAB 829 137

2009SP01 NUCLEAR REACTIONS ^{77,78,80}Se(p, xn)⁷⁵Br / ⁷⁶Br, E<85 MeV; measured E_γ , I_γ ; deduced σ , yields. Comparison with ALICE-IPPE code. JOUR RAACA 465 535

⁷⁵Kr 2009TR07 NUCLEAR REACTIONS ⁵⁰Cr(²⁸Si, n2p), E=90 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin, and half-lives by Doppler-shift attenuation method. ⁷⁵Kr; deduced levels, J, π , bands, B(E2), transitional quadrupole moments, and configurations. Comparison with projected shell model calculations. JOUR PRVCA 80 047302

A=76

- ⁷⁶Zn 2009PA35 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from ²³⁸U(n, F), (p, F), E=1 GeV]; measured E γ , I γ , $\gamma\gamma^-$, $\beta\gamma^-$, βn -coin and β -delayed neutron yield. ⁷⁶Zn, ⁷⁷Zn; deduced levels, J, π , half-lives. Systematics of low-lying levels of A=63-77 Cu nuclei. JOUR PRVCA 80 034307
- ⁷⁶As 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- ⁷⁶Br 2009SP01 NUCLEAR REACTIONS ^{77,78,80}Se(p, xn)⁷⁵Br / ⁷⁶Br, E<85 MeV; measured E γ , I γ ; deduced σ , yields. Comparison with ALICE-IPPE code. JOUR RAACA 465 535

A=77

- ⁷⁷Cu 2009PA35 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from ²³⁸U(n, F), (p, F), E=1 GeV]; measured E γ , I γ , $\gamma\gamma^-$, $\beta\gamma^-$, βn -coin and β -delayed neutron yield. ⁷⁶Zn, ⁷⁷Zn; deduced levels, J, π , half-lives. Systematics of low-lying levels of A=63-77 Cu nuclei. JOUR PRVCA 80 034307
- ⁷⁷Zn 2009PA35 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from ²³⁸U(n, F), (p, F), E=1 GeV]; measured E γ , I γ , $\gamma\gamma^-$, $\beta\gamma^-$, βn -coin and β -delayed neutron yield. ⁷⁶Zn, ⁷⁷Zn; deduced levels, J, π , half-lives. Systematics of low-lying levels of A=63-77 Cu nuclei. JOUR PRVCA 80 034307
- ⁷⁷Se 2009MU15 RADIOACTIVITY ⁷⁹Br, ⁷⁷Se(IT); measured E γ , I γ ; deduced T_{1/2}. JOUR NIMAE 610 654

A=78

- ⁷⁸Kr 20090B02 NUCLEAR REACTIONS ¹⁹⁷Au(⁶⁸Se, X), E=92 MeV / nucleon; measured E γ , I γ , (particle) γ -coin, t-o-f method using SeGa array. ⁶⁸Se, ⁷⁸Kr; deduced levels, J, π , B(E2). Coulomb excitation. Systematics of first 2+ states in Z=30-38 self-conjugate nuclei. Comparisons with several theoretical predictions. JOUR PRVCA 80 031304

A=79

- ⁷⁹As 2009DIZY NUCLEAR REACTIONS ⁸²Se(p, α)⁷⁹As(β^-), E(cm)=18.625 MeV]; measured I γ , E γ ; deduced σ of ⁷⁹Se. Preliminary. REPT MLL 2008 Annual,P30,Dillmann
- ⁷⁹Se 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=79 (continued)

⁷⁹Br 2009MU15 RADIOACTIVITY ⁷⁹Br, ⁷⁷Se(IT); measured E γ , I γ ; deduced T_{1/2}.
JOUR NIMAE 610 654

A=80

No references found

A=81

No references found

A=82

⁸²Se 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd(2 β^-);
measured 0 ν 2 β^- -decay T_{1/2} lower limit, 2 ν 2 β^- -decay T_{1/2}. CONF
Cheboksary,P84,Kochetov

⁸²Kr 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd(2 β^-);
measured 0 ν 2 β^- -decay T_{1/2} lower limit, 2 ν 2 β^- -decay T_{1/2}. CONF
Cheboksary,P84,Kochetov

A=83

⁸³Ge 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X),
E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As,
⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities,
logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO
facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus.
Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+
states. JOUR PRVCA 80 044308

2009VE11 RADIOACTIVITY ⁸⁴Ga, ⁸⁴Ge(β^-); ⁸⁴As, ⁸³Ge; measured E γ , I γ ;
deduced level energies, J, π , β -n transitions. JOUR IMPEE 18 1976

⁸³As 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X),
E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As,
⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities,
logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO
facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus.
Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+
states. JOUR PRVCA 80 044308

⁸³Kr 2009KA30 RADIOACTIVITY ^{83m}Kr(IT)[from ⁸³Rb(EC)]; measured E γ ,
conversion electrons, (ce)(ce)(t), and level half-life using liquid xenon
scintillation detector. Calibration of liquid xenon detector. Relevance
to classical turbulence in liquid or gaseous helium. JOUR PRVCA 80
045809

A=83 (continued)

⁸³Rb 2009SC22 NUCLEAR REACTIONS ⁷⁶Ge(¹¹B, 4n), E=45, 50 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, DCO, half-lives by DSAM, multiplicities. ⁸³Rb; deduced levels, J, π , bands, dipole bands, B(M1), B(E1), and B(E2). GASP array. Comparison with shell model calculations. JOUR PRVCA 80 044305

A=84

⁸⁴Ga 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^-n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308

2009VE11 RADIOACTIVITY ⁸⁴Ga, ⁸⁴Ge(β^-); ⁸⁴As, ⁸³Ge; measured E γ , I γ ; deduced level energies, J, π , β -n transitions. JOUR IMPEE 18 1976

⁸⁴Ge 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^-n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308

2009VE11 RADIOACTIVITY ⁸⁴Ga, ⁸⁴Ge(β^-); ⁸⁴As, ⁸³Ge; measured E γ , I γ ; deduced level energies, J, π , β -n transitions. JOUR IMPEE 18 1976

⁸⁴As 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^-n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308

2009VE11 RADIOACTIVITY ⁸⁴Ga, ⁸⁴Ge(β^-); ⁸⁴As, ⁸³Ge; measured E γ , I γ ; deduced level energies, J, π , β -n transitions. JOUR IMPEE 18 1976

⁸⁴Se 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^-n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308

⁸⁴Br 2009VIZY NUCLEAR REACTIONS ²³⁹Pu, ²⁴¹Am(γ , f), E(end point)=10, 17 MeV; measured E γ , I γ . ⁸⁴Br, ¹³³Te, ¹³⁵Xe; deduced isomeric yield ratios. Activation method CONF Cheboksary,P138,Vishnevsky

A=85

⁸⁵Sr 2009RA24 NUCLEAR REACTIONS ⁸⁵Rb(p, n), E(cm)=2.16-3.96 MeV; measured E γ , I γ , σ by activation method; deduced astrophysical S factors, astrophysical reactivity for ⁸⁵Rb(p, n)⁸⁵Sr and ⁸⁵Sr(n, p)⁸⁵Rb reactions as a function of stellar plasma temperature. Comparison with theoretical S factors. JOUR PRVCA 80 035801

A=86

⁸⁶Br 2009P010 NUCLEAR REACTIONS ²⁰⁸Pb(¹⁸O, X)⁸⁶Br / ⁸⁸Br, E=85 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(t)$ using the Euroball IV array. ^{86,88}Br; deduced high-spin levels, J, π , multipolarities, configurations. Comparison with systematics. JOUR ZAANE 40 131

⁸⁶Y 2009RA25 NUCLEAR REACTIONS Zr(γ , X)⁸⁹Zr / ⁸⁶Y, ⁸⁹Y(γ , xn)^{87,86}Y, E=50-70 MeV; measured E, I γ ; deduced isomeric yields ratios. JOUR NIMBE 267 3511

A=87

⁸⁷Y 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured E γ , I γ . ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF Cheboksary,P142,Libanova

A=88

⁸⁸Br 2009P010 NUCLEAR REACTIONS ²⁰⁸Pb(¹⁸O, X)⁸⁶Br / ⁸⁸Br, E=85 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(t)$ using the Euroball IV array. ^{86,88}Br; deduced high-spin levels, J, π , multipolarities, configurations. Comparison with systematics. JOUR ZAANE 40 131

⁸⁸Rb 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata

⁸⁸Sr 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata

⁸⁸Y 2009DI05 NUCLEAR REACTIONS ⁹³Nb(p, X)⁹⁰Mo / ⁹³Mo / ⁹⁰Nb / ⁹¹Nb / ⁹²Nb / ⁸⁸Zr / ⁸⁹Zr / ⁸⁸Y, E = 0-37 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364

 2009MA58 NUCLEAR REACTIONS ⁸⁹Y(⁹Be, 3n), (⁹Be, 4n), (⁹Be, 5n), (p, np), (p, d), E<47.5 MeV; measured E γ , I γ ; deduced ^{93,94,95}Tc product yield as function of projectile energy. Comparison with PACE-II prediction. JOUR RAACA 97 663

A=88 (continued)

- ⁸⁸Zr 2009DI05 NUCLEAR REACTIONS ⁹³Nb(p, X)⁹⁰Mo / ⁹³Mo / ⁹⁰Nb / ⁹¹Nb / ⁹²Nb / ⁸⁸Zr / ⁸⁹Zr / ⁸⁸Y, E = 0-37 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364
- 2009DU10 NUCLEAR REACTIONS Y(p, X)⁸⁸Zr / ⁸⁹Zr, E=20 MeV; measured E γ , I γ . JOUR JRNC 281 663

A=89

- ⁸⁹Rb 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ⁸⁹Sr 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ⁸⁹Y 2009H007 RADIOACTIVITY ^{93m}Mo(β^+), (IT)[from ¹³C(⁸⁶Kr, X), E=7.4 MeV / nucleon]; measured E γ , I γ , $\gamma\gamma$ -coin. ⁹³Nb, ⁹³Mo; deduced levels, J, π , transition strengths. ⁹²Y(β^-), ^{89m}Y, ^{90m}Y, ^{90m}Zr, ^{91m}Zr, ^{92m}Mo, ^{93m}Mo, ^{94m}Mo(IT); measured E γ . Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- 2009KI16 NUCLEAR REACTIONS ⁸⁹Y(α , α), E(cm)=15.51, 18.63 MeV; measured E α , I α , σ ; deduced parameters for local scattering potentials. ⁸⁹Y(α , α), E(cm)=20.1, 22.0, 23.9, 40.2, 62.2, 158.9 MeV; ⁹²Mo(α , α), E(cm)=15.69, 18.62 MeV; analyzed σ and $\sigma(\theta)$ measurements with different potential parameters. ⁹³Nb; analyzed α -cluster states in ⁸⁹Y+ α system, bands, and B(E2) using potential parameters close to those for the scattering potential. JOUR PRVCA 80 045807
- ⁸⁹Zr 2008FUZV NUCLEAR REACTIONS ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, p), E=3.5-5.9 MeV; ²⁷Al, ^{28,29}Si, ⁴¹K, ⁵¹V, ⁶¹Ni, ⁶⁵Cu, ^{64,67}Zn, ⁶⁹Ga, ⁷⁹Br, ⁹²Mo, ⁹³Nb(n, α), E=3.5-5.9 MeV; measured E γ , I γ ; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta

A=89 (continued)

- 2009DI05 NUCLEAR REACTIONS $^{93}\text{Nb}(p, X)^{90}\text{Mo} / ^{93}\text{Mo} / ^{90}\text{Nb} / ^{91}\text{Nb} / ^{92}\text{Nb} / ^{88}\text{Zr} / ^{89}\text{Zr} / ^{88}\text{Y}$, $E = 0\text{-}37$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364
- 2009DU10 NUCLEAR REACTIONS $\text{Y}(p, X)^{88}\text{Zr} / ^{89}\text{Zr}$, $E=20$ MeV; measured $E\gamma$, $I\gamma$. JOUR JRNC 281 663
- 2009RA25 NUCLEAR REACTIONS $\text{Zr}(\gamma, X)^{89}\text{Zr} / ^{86}\text{Y}$, $^{89}\text{Y}(\gamma, xn)^{87,86}\text{Y}$, $E=50\text{-}70$ MeV; measured E , $I\gamma$; deduced isomeric yields ratios. JOUR NIMBE 267 3511

A=90

- ^{90}Rb 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from $\text{U}(\gamma, X)$, $E=0\text{-}50$ MeV]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J , π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured $E\gamma$. PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. $Z=32\text{-}40$ (even), $N=52$; $N=42\text{-}54$, $Z=32$; systematics of first $2+$ and $4+$ states. JOUR PRVCA 80 044308
- ^{90}Sr 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from $\text{U}(\gamma, X)$, $E=0\text{-}50$ MeV]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J , π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured $E\gamma$. PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. $Z=32\text{-}40$ (even), $N=52$; $N=42\text{-}54$, $Z=32$; systematics of first $2+$ and $4+$ states. JOUR PRVCA 80 044308
- ^{90}Y 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, $E=3.5\text{-}5.9$ MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, $E=3.5\text{-}5.9$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, X)$, $E=7.4$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured $E\gamma$. Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ^{90}Zr 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, X)$, $E=7.4$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured $E\gamma$. Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ^{90}Nb 2009DI05 NUCLEAR REACTIONS $^{93}\text{Nb}(p, X)^{90}\text{Mo} / ^{93}\text{Mo} / ^{90}\text{Nb} / ^{91}\text{Nb} / ^{92}\text{Nb} / ^{88}\text{Zr} / ^{89}\text{Zr} / ^{88}\text{Y}$, $E = 0\text{-}37$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364

A=90 (continued)

- ⁹⁰Mo 2009DI05 NUCLEAR REACTIONS ⁹³Nb(p, X)⁹⁰Mo / ⁹³Mo / ⁹⁰Nb / ⁹¹Nb / ⁹²Nb / ⁸⁸Zr / ⁸⁹Zr / ⁸⁸Y, E = 0-37 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=91

- ⁹¹Rb 2009HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ^{91,92,93}Rb, ^{155,156}Pm; deduced levels, J, π , bands. Comparison with level systematics of ⁸⁹Rb, ⁹⁰Kr and ⁹²Kr. JOUR PRVCA 80 037304
- ⁹¹Zr 2009H007 RADIOACTIVITY ^{93m}Mo(β^+), (IT)[from ¹³C(⁸⁶Kr, X), E=7.4 MeV / nucleon]; measured E γ , I γ , $\gamma\gamma$ -coin. ⁹³Nb, ⁹³Mo; deduced levels, J, π , transition strengths. ⁹²Y(β^-), ^{89m}Y, ^{90m}Y, ^{90m}Zr, ^{91m}Zr, ^{92m}Mo, ^{93m}Mo, ^{94m}Mo(IT); measured E γ . Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ⁹¹Nb 2009DI05 NUCLEAR REACTIONS ⁹³Nb(p, X)⁹⁰Mo / ⁹³Mo / ⁹⁰Nb / ⁹¹Nb / ⁹²Nb / ⁸⁸Zr / ⁸⁹Zr / ⁸⁸Y, E = 0-37 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364

A=92

- ⁹²Rb 2009HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ^{91,92,93}Rb, ^{155,156}Pm; deduced levels, J, π , bands. Comparison with level systematics of ⁸⁹Rb, ⁹⁰Kr and ⁹²Kr. JOUR PRVCA 80 037304
- ⁹²Y 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2009H007 RADIOACTIVITY ^{93m}Mo(β^+), (IT)[from ¹³C(⁸⁶Kr, X), E=7.4 MeV / nucleon]; measured E γ , I γ , $\gamma\gamma$ -coin. ⁹³Nb, ⁹³Mo; deduced levels, J, π , transition strengths. ⁹²Y(β^-), ^{89m}Y, ^{90m}Y, ^{90m}Zr, ^{91m}Zr, ^{92m}Mo, ^{93m}Mo, ^{94m}Mo(IT); measured E γ . Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ⁹²Zr 2007SUZN RADIOACTIVITY ⁹²Zr[from ⁹Be(⁸⁶Kr, 3n), E=280 MeV]; measured E γ , I γ . Analysis of high-spin state lifetimes in progress. REPT JAEA-Review 2007-046,P27,Sugawara
- 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata

A=92 (continued)

- 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, \text{X})$, $E=7.4$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured $E\gamma$. Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- 2010ZH01 NUCLEAR REACTIONS $^{95}\text{Mo}(n, \alpha)$, $E=4, 5, 6$ MeV; measured $I\alpha$, $E\alpha$, reaction fragments; deduced σ . Comparison with ENDF / B-VII.0, JEFF-3.1 / A and JENDL-3.3 libraries. JOUR ARISE 68 180
- ^{92}Nb 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, $E=3.5-5.9$ MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, $E=3.5-5.9$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF/B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- 2009DI05 NUCLEAR REACTIONS $^{93}\text{Nb}(p, X)^{90}\text{Mo} / ^{93}\text{Mo} / ^{90}\text{Nb} / ^{91}\text{Nb} / ^{92}\text{Nb} / ^{88}\text{Zr} / ^{89}\text{Zr} / ^{88}\text{Y}$, $E = 0-37$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364
- 2009SI28 NUCLEAR REACTIONS ^{197}Au , ^{181}Ta , $^{93}\text{Nb}(\alpha, n)$, ^{197}Au , $^{181}\text{Ta}(\alpha, 2n)$, $^{181}\text{Ta}(\alpha, 3n)$, $^{197}\text{Au}(\alpha, 2pn)$, $^{93}\text{Nb}(\alpha, 2p)$, ^{197}Au , $^{93}\text{Nb}(\alpha, \alpha n)$, $^{27}\text{Al}(\alpha, \alpha 2pn)$, $E=18-60$ MeV; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- ^{92}Mo 2009G0ZZ NUCLEAR REACTIONS $^{92}\text{Mo}(n, n'\gamma)$, $E=\text{fast}$; measured $E\gamma$, $I\gamma(\theta)$. ^{92}Mo ; deduced δ . CONF Cheboksary,P95,Govor
- 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, \text{X})$, $E=7.4$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured $E\gamma$. Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- 2009KI16 NUCLEAR REACTIONS $^{89}\text{Y}(\alpha, \alpha)$, $E(\text{cm})=15.51, 18.63$ MeV; measured $E\alpha$, $I\alpha$, σ ; deduced parameters for local scattering potentials. $^{89}\text{Y}(\alpha, \alpha)$, $E(\text{cm})=20.1, 22.0, 23.9, 40.2, 62.2, 158.9$ MeV; $^{92}\text{Mo}(\alpha, \alpha)$, $E(\text{cm})=15.69, 18.62$ MeV; analyzed σ and $\sigma(\theta)$ measurements with different potential parameters. ^{93}Nb ; analyzed α -cluster states in $^{89}\text{Y}+\alpha$ system, bands, and $B(E2)$ using potential parameters close to those for the scattering potential. JOUR PRVCA 80 045807

A=93

- ^{93}Rb 2009HW03 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{91,92,93}\text{Rb}$, $^{155,156}\text{Pm}$; deduced levels, J , π , bands. Comparison with level systematics of ^{89}Rb , ^{90}Kr and ^{92}Kr . JOUR PRVCA 80 037304

A=93 (continued)

- 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from U(γ , X), E=0-50 MeV]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J, π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured $E\gamma$. PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ^{93}Sr 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from U(γ , X), E=0-50 MeV]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J, π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured $E\gamma$. PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ^{93}Y 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- ^{93}Zr 2008FUZV NUCLEAR REACTIONS ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, p)$, E=3.5-5.9 MeV; ^{27}Al , $^{28,29}\text{Si}$, ^{41}K , ^{51}V , ^{61}Ni , ^{65}Cu , $^{64,67}\text{Zn}$, ^{69}Ga , ^{79}Br , ^{92}Mo , $^{93}\text{Nb}(n, \alpha)$, E=3.5-5.9 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to data and evaluated data files ENDF?B-VI, FENDL / A-2.0 and JENFDL-3.3. Activation method. REPT JAEA-Conf 2008-08,P56,Furuta
- 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2010CA01 RADIOACTIVITY $^{93}\text{Zr}(\beta^-)$; measured x-rays, $E\beta$, $I\beta$; deduced $T_{1/2}$, decay scheme. JOUR ARISE 68 122
- ^{93}Nb 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, X)$, E=7.4 MeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J, π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured $E\gamma$. Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- 2009KI16 NUCLEAR REACTIONS $^{89}\text{Y}(\alpha, \alpha)$, E(cm)=15.51, 18.63 MeV; measured $E\alpha$, $I\alpha$, σ ; deduced parameters for local scattering potentials. $^{89}\text{Y}(\alpha, \alpha)$, E(cm)=20.1, 22.0, 23.9, 40.2, 62.2, 158.9 MeV; $^{92}\text{Mo}(\alpha, \alpha)$, E(cm)=15.69, 18.62 MeV; analyzed σ and $\sigma(\theta)$ measurements with different potential parameters. ^{93}Nb ; analyzed α -cluster states in $^{89}\text{Y}+\alpha$ system, bands, and B(E2) using potential parameters close to those for the scattering potential. JOUR PRVCA 80 045807
- 2010CA01 RADIOACTIVITY $^{93}\text{Zr}(\beta^-)$; measured x-rays, $E\beta$, $I\beta$; deduced $T_{1/2}$, decay scheme. JOUR ARISE 68 122
- ^{93}Mo 2009DI05 NUCLEAR REACTIONS $^{93}\text{Nb}(p, X)^{90}\text{Mo}$ / ^{93}Mo / ^{90}Nb / ^{91}Nb / ^{92}Nb / ^{88}Zr / ^{89}Zr / ^{88}Y , E = 0-37 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE, EMPIRE and TALYS codes. JOUR NIMBE 267 3364

A=93 (continued)

- 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, \text{X})$, $E=7.4$ MeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured E_γ . Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ^{93}Tc 2009MA58 NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, 3n)$, $(^9\text{Be}, 4n)$, $(^9\text{Be}, 5n)$, (p, np) , (p, d) , $E<47.5$ MeV; measured E_γ , I_γ ; deduced $^{93,94,95}\text{Tc}$ product yield as function of projectile energy. Comparison with PACE-II prediction. JOUR RAACA 97 663

A=94

- ^{94}Rb 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from $\text{U}(\gamma, \text{X})$, $E=0-50$ MeV]; measured E_γ , I_γ , $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J , π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured E_γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. $Z=32-40$ (even), $N=52$; $N=42-54$, $Z=32$; systematics of first $2+$ and $4+$ states. JOUR PRVCA 80 044308
- ^{94}Sr 2009LE26 RADIOACTIVITY ^{84g}Ga , $^{84m}\text{Ga}(\beta^-)$, (β^-n) , $^{84}\text{Ge}(\beta^-)$ [from $\text{U}(\gamma, \text{X})$, $E=0-50$ MeV]; measured E_γ , I_γ , $\beta\gamma$ -coin, half-lives. ^{84}Ga , ^{84}Ge , ^{84}As , ^{83}Ge ; deduced levels, J , π , delayed-neutron emission probabilities, logft. ^{83}Ge , ^{84}As , $^{89,90,93,94,96}\text{Rb}(\beta^-)$; measured E_γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ^{78}Ni nucleus. $Z=32-40$ (even), $N=52$; $N=42-54$, $Z=32$; systematics of first $2+$ and $4+$ states. JOUR PRVCA 80 044308
- ^{94}Y 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured E_β , I_β , E_γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- ^{94}Zr 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured E_β , I_β , E_γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- ^{94}Mo 2009H007 RADIOACTIVITY $^{93m}\text{Mo}(\beta^+)$, (IT)[from $^{13}\text{C}(^{86}\text{Kr}, \text{X})$, $E=7.4$ MeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin. ^{93}Nb , ^{93}Mo ; deduced levels, J , π , transition strengths. $^{92}\text{Y}(\beta^-)$, ^{89m}Y , ^{90m}Y , ^{90m}Zr , ^{91m}Zr , ^{92m}Mo , ^{93m}Mo , $^{94m}\text{Mo}(\text{IT})$; measured E_γ . Comparison with jj-coupling shell model calculations. JOUR PRVCA 80 034306
- ^{94}Tc 2009MA58 NUCLEAR REACTIONS $^{89}\text{Y}(^9\text{Be}, 3n)$, $(^9\text{Be}, 4n)$, $(^9\text{Be}, 5n)$, (p, np) , (p, d) , $E<47.5$ MeV; measured E_γ , I_γ ; deduced $^{93,94,95}\text{Tc}$ product yield as function of projectile energy. Comparison with PACE-II prediction. JOUR RAACA 97 663
- ^{94}Ag 2009CE04 NUCLEAR REACTIONS $^{58}\text{Ni}(^{40}\text{Ca}, 3np)$, $E=197$ MeV; measured E_p , I_p , pp -coin.; deduced $^{94}\text{Ag}^m$ one-proton radioactivity, no two-proton radioactivity. JOUR PRLTA 103 152502

A=95

- ⁹⁵Y 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- ⁹⁵Zr 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2009LI36 NUCLEAR REACTIONS ⁹⁴Zr, ⁹⁶Zr(n, γ), E epithermal; measured E γ , I γ ; deduced k₀-factors. Neutron activation analysis. JOUR ARISE 67 2092
- ⁹⁵Nb 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- ⁹⁵Tc 2009MA58 NUCLEAR REACTIONS ⁸⁹Y(⁹Be, 3n), (⁹Be, 4n), (⁹Be, 5n), (p, np), (p, d), E<47.5 MeV; measured E γ , I γ ; deduced ^{93,94,95}Tc product yield as function of projectile energy. Comparison with PACE-II prediction. JOUR RAACA 97 663

A=96

- ⁹⁶Rb 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ⁹⁶Sr 2009LE26 RADIOACTIVITY ^{84g}Ga, ^{84m}Ga(β^-), (β^- n), ⁸⁴Ge(β^-)[from U(γ , X), E=0-50 MeV]; measured E γ , I γ , $\beta\gamma$ -coin, half-lives. ⁸⁴Ga, ⁸⁴Ge, ⁸⁴As, ⁸³Ge; deduced levels, J, π , delayed-neutron emission probabilities, logft. ⁸³Ge, ⁸⁴As, ^{89,90,93,94,96}Rb(β^-); measured E γ . PARRNe-ALTO facility. Implications for structure near doubly-magic ⁷⁸Ni nucleus. Z=32-40 (even), N=52; N=42-54, Z=32; systematics of first 2+ and 4+ states. JOUR PRVCA 80 044308
- ⁹⁶Zr 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay T_{1/2} lower limit, $2\nu 2\beta^-$ -decay T_{1/2}. CONF Cheboksary,P84,Kochetov
- ⁹⁶Mo 2009AGZY NUCLEAR REACTIONS ⁹⁵Mo(n, γ), ^{151,153}Eu(n, γ), ^{155,157}Gd(n, γ), E=10 meV-100 keV; measured E γ , I γ , γ multiplicity using DANCE BaF₂ array, In, En using TOF method; deduced J, π of n-resonances using DICEBOX code. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P11,Agvaanluvsan
- 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay T_{1/2} lower limit, $2\nu 2\beta^-$ -decay T_{1/2}. CONF Cheboksary,P84,Kochetov

A=96 (continued)

⁹⁶Tc 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037

A=97

⁹⁷Zr 2009LI36 NUCLEAR REACTIONS ⁹⁴Zr, ⁹⁶Zr(n, γ), E epithermal; measured E γ , I γ ; deduced k₀-factors. Neutron activation analysis. JOUR ARISE 67 2092

⁹⁷Tc 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E γ , I γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501

⁹⁷Ru 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E γ , I γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501

A=98

No references found

A=99

⁹⁹Mo 2009KIZY NUCLEAR REACTIONS Mo(n, γ), E=0.01-200 eV; measured In; deduced σ ; ¹⁸⁶W(n, γ), E=thermal; ⁹⁸Mo(n, γ), E=thermal; measured In relative to ¹⁹⁷Au(n, γ); deduced σ , resonance integral; ⁴⁵Sc(γ , n), E=65 MeV; Ti(γ , x)⁴⁴Sc, E=65 MeV; ¹⁰³Rh(γ , 4n), E=65 MeV; Fe(γ , x)⁵²Mn, E=65 MeV; measured E γ , I γ ; deduced σ , isomeric transition. Compared to other data. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P72, Kim

⁹⁹Rh 2009KIZY NUCLEAR REACTIONS Mo(n, γ), E=0.01-200 eV; measured In; deduced σ ; ¹⁸⁶W(n, γ), E=thermal; ⁹⁸Mo(n, γ), E=thermal; measured In relative to ¹⁹⁷Au(n, γ); deduced σ , resonance integral; ⁴⁵Sc(γ , n), E=65 MeV; Ti(γ , x)⁴⁴Sc, E=65 MeV; ¹⁰³Rh(γ , 4n), E=65 MeV; Fe(γ , x)⁵²Mn, E=65 MeV; measured E γ , I γ ; deduced σ , isomeric transition. Compared to other data. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P72, Kim

⁹⁹Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=100

- ¹⁰⁰Mo 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu 2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- ¹⁰⁰Ru 2009KOZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu 2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- ¹⁰⁰Pd 2009RA28 NUCLEAR REACTIONS ⁹²Mo(¹¹B, 2np), E=43 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin and half-lives using the recoil-distance Doppler-shift (RDDS) technique. ¹⁰⁰Pd; deduced levels, B(E1), B(E2). Comparison with predictions from collective models and the shell model. JOUR PRVCA 80 044331
- ¹⁰⁰Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=101

- ¹⁰¹Mo 2009DAZY RADIOACTIVITY ¹⁰¹Mo(β^-)[from ¹⁰⁰Mo+n]; ¹⁰¹Tc(β^-)[from ¹⁰¹Mo]; measured E_γ , I_γ ; deduced half-life. CONF Brazil (Nuclear Physics 2008) Proc. P185,da Silva
- ¹⁰¹Tc 2009DAZY RADIOACTIVITY ¹⁰¹Mo(β^-)[from ¹⁰⁰Mo+n]; ¹⁰¹Tc(β^-)[from ¹⁰¹Mo]; measured E_γ , I_γ ; deduced half-life. CONF Brazil (Nuclear Physics 2008) Proc. P185,da Silva
- ¹⁰¹Ru 2009DAZY RADIOACTIVITY ¹⁰¹Mo(β^-)[from ¹⁰⁰Mo+n]; ¹⁰¹Tc(β^-)[from ¹⁰¹Mo]; measured E_γ , I_γ ; deduced half-life. CONF Brazil (Nuclear Physics 2008) Proc. P185,da Silva
- ¹⁰¹Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=102

- ¹⁰²Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=103

- ¹⁰³Ru 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E_γ , I_γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501
- ¹⁰³Rh 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E_γ , I_γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501

A=103 (continued)

¹⁰³Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=104

¹⁰⁴Ag 2009BEZW NUCLEAR REACTIONS ¹⁰⁷Ag(γ , 3n), ¹⁰⁹Ag(γ , 5n), E(end point)=33-100 MeV; measured E γ , I γ . ¹⁰⁴Ag; deduced isomeric yield ratios depending on E γ . CONF Cheboksary,P132,Bessheiko

¹⁰⁴Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=105

¹⁰⁵Rh 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E γ , I γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501

¹⁰⁵Pd 2009G029 RADIOACTIVITY ⁹⁷Ru(EC); ¹⁰³Ru, ¹⁰⁵Rh(β^-); measured E γ , I γ , half-lives at room temperature and 19 K. JOUR PRVCA 80 045501

¹⁰⁵Ag 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

¹⁰⁵Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=106

¹⁰⁶Pd 2009RUZZ RADIOACTIVITY ¹⁰⁶Cd($2\beta^+$), (β^+ EC), (2EC); measured T_{1/2}, E γ , I γ . TGV-2 spectrometer. CONF Cheboksary,P83,Rukhadze

¹⁰⁶Ag 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

¹⁰⁶Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

2009RUZZ RADIOACTIVITY ¹⁰⁶Cd($2\beta^+$), (β^+ EC), (2EC); measured T_{1/2}, E γ , I γ . TGV-2 spectrometer. CONF Cheboksary,P83,Rukhadze

A=107

¹⁰⁷Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=108

¹⁰⁸Tc 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314

¹⁰⁸Ru 2009LU18 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, B(E1) / B(E2), chiral doubling. Comparison with other chiral doubling candidates. JOUR IMPEE 18 1697

2009ZH24 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced high-spin, even-parity bands, branching ratios, odd-even spin energy band staggering, doubling of levels in ¹¹⁰Ru, deformation parameters, triaxiality. Comparison with TRS calculations. JOUR IMPEE 18 1717

¹⁰⁸Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

¹⁰⁸In 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

A=109

¹⁰⁹Tc 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314

¹⁰⁹Pd 2009PAZZ NUCLEAR REACTIONS ¹¹⁰Pd, ¹⁴²Nd, ¹⁴⁴Sm(γ , n), E=27, 28, 29, 30 MeV; measured E γ , I γ . ¹⁰⁹Pd; deduced isomeric yield ratios depending on E γ . Activation technique. CONF Cheboksary,P146,Palvanov

¹⁰⁹Cd 2009BR09 ATOMIC MASSES ^{99,100,101,102,103,104,105,106,107,108,109}Cd; measured and evaluated masses using ISOLTRAP penning-trap spectrometer. Comparisons with other measurements and AME-2003 evaluation. JOUR PRVCA 80 035805

A=109 (continued)

¹⁰⁹In 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

A=110

¹¹⁰Tc 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314

¹¹⁰Ru 2009LU18 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, B(E1) / B(E2), chiral doubling. Comparison with other chiral doubling candidates. JOUR IMPEE 18 1697

2009ZH24 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced high-spin, even-parity bands, branching ratios, odd-even spin energy band staggering, doubling of levels in ¹¹⁰Ru, deformation parameters, triaxiality. Comparison with TRS calculations. JOUR IMPEE 18 1717

¹¹⁰Pd 20090LZX NUCLEAR REACTIONS ¹¹⁰Pd(¹⁸O, ¹⁸O'), E=57 MeV; measured E(particle), I(particle), θ (particle), E γ , I γ , particle- γ -coin.; deduced $d\sigma$; calculated $d\sigma$ with Sao Paulo potential in DIC. CONF Brazil (Nuclear Physics 2008) Proc. P172,Oliveira

¹¹⁰Ag 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

¹¹⁰In 2010RA01 NUCLEAR REACTIONS In(γ , xn)¹¹⁰In, ¹¹³In(γ , 2n), ¹¹¹In, In(γ , xn), ¹¹¹In, ¹¹³In(γ , n), ¹¹²In, In(γ , xn), ¹¹²In, ¹¹⁸Sn(γ , p), ¹¹⁷In, Sn(γ , xnp)¹¹⁷In, E<70 MeV; measured E γ , I γ ; deduced isomeric yield ratios. Comparison with other values. JOUR NIMBE 268 13

2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

A=111

¹¹¹Rh 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314

A=111 (continued)

- ¹¹¹Ag 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2
- ¹¹¹Cd 2010RA01 NUCLEAR REACTIONS In(γ , xn)¹¹⁰In, ¹¹³In(γ , 2n), ¹¹¹In, In(γ , xn), ¹¹¹In, ¹¹³In(γ , n), ¹¹²In, In(γ , xn), ¹¹²In, ¹¹⁸Sn(γ , p), ¹¹⁷In, Sn(γ , xnp)¹¹⁷In, E<70 MeV; measured E γ , I γ ; deduced isomeric yield ratios. Comparison with other values. JOUR NIMBE 268 13
- 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2
- ¹¹¹In 2010RA01 NUCLEAR REACTIONS In(γ , xn)¹¹⁰In, ¹¹³In(γ , 2n), ¹¹¹In, In(γ , xn), ¹¹¹In, ¹¹³In(γ , n), ¹¹²In, In(γ , xn), ¹¹²In, ¹¹⁸Sn(γ , p), ¹¹⁷In, Sn(γ , xnp)¹¹⁷In, E<70 MeV; measured E γ , I γ ; deduced isomeric yield ratios. Comparison with other values. JOUR NIMBE 268 13
- 2010TA02 NUCLEAR REACTIONS Ag(α , xn)¹⁰⁸In / ¹⁰⁹In / ¹¹⁰In / ¹¹¹In, Ag(α , xn2p)¹⁰⁵Ag / ¹⁰⁶Ag / ¹¹⁰Ag / ¹¹¹Ag, Ag(α , xnp)¹¹¹Cd, E<40 MeV; measured E γ , I γ ; deduced σ . JOUR NIMBE 268 2

A=112

- ¹¹²Ru 2009LU18 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, B(E1) / B(E2), chiral doubling. Comparison with other chiral doubling candidates. JOUR IMPEE 18 1697
- 2009ZH24 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced high-spin, even-parity bands, branching ratios, odd-even spin energy band staggering, doubling of levels in ¹¹⁰Ru, deformation parameters, triaxiality. Comparison with TRS calculations. JOUR IMPEE 18 1717
- ¹¹²Ag 2009GR10 RADIOACTIVITY ¹¹²Ag(β^-), ¹¹²In(EC)[from Ta(p, X), E=500 MeV]; measured E γ , I γ , $\gamma\gamma$ -coin using 8 π array. ¹¹²Cd; deduced levels, J, π , B(E2). Discussed implications for 0 $\nu\beta\beta$ decay of ¹¹²Sn. JOUR PRVCA 80 032502
- ¹¹²Cd 2009BA44 RADIOACTIVITY ¹¹²Sn(β^+EC), (2EC); measured E γ , I γ ; deduced upper half-life limits for different decay modes and to levels in ¹¹²Cd. Comparison with previous studies. JOUR PRVCA 80 035501
- 2009GR10 RADIOACTIVITY ¹¹²Ag(β^-), ¹¹²In(EC)[from Ta(p, X), E=500 MeV]; measured E γ , I γ , $\gamma\gamma$ -coin using 8 π array. ¹¹²Cd; deduced levels, J, π , B(E2). Discussed implications for 0 $\nu\beta\beta$ decay of ¹¹²Sn. JOUR PRVCA 80 032502
- ¹¹²In 2009GR10 RADIOACTIVITY ¹¹²Ag(β^-), ¹¹²In(EC)[from Ta(p, X), E=500 MeV]; measured E γ , I γ , $\gamma\gamma$ -coin using 8 π array. ¹¹²Cd; deduced levels, J, π , B(E2). Discussed implications for 0 $\nu\beta\beta$ decay of ¹¹²Sn. JOUR PRVCA 80 032502

A=112 (continued)

- 2010RA01 NUCLEAR REACTIONS In(γ , xn) ^{110}In , $^{113}\text{In}(\gamma, 2n)$, ^{111}In , In(γ , xn), ^{111}In , $^{113}\text{In}(\gamma, n)$, ^{112}In , In(γ , xn), ^{112}In , $^{118}\text{Sn}(\gamma, p)$, ^{117}In , Sn(γ , xnp) ^{117}In , E<70 MeV; measured E γ , I γ ; deduced isomeric yield ratios. Comparison with other values. JOUR NIMBE 268 13
- ^{112}Sn 2009BA44 RADIOACTIVITY $^{112}\text{Sn}(\beta^+\text{EC})$, (2EC); measured E γ , I γ ; deduced upper half-life limits for different decay modes and to levels in ^{112}Cd . Comparison with previous studies. JOUR PRVCA 80 035501

A=113

- ^{113}Rh 2009LI42 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ^{137}I , ^{139}Cs ; deduced levels, J, π , bands, multipolarities and mixing ratios. $^{108,109,110}\text{Tc}$, $^{111,113}\text{Rh}$; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314
- ^{113}In 2010HE01 NUCLEAR REACTIONS $^{116}\text{Cd}(p, 4n)$, (p, 3n), (p, 2n), (p, n), (p, pn), E<36 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE and EMPIRE codes. JOUR ARISE 68 14
- ^{113}Sn 2009TI09 NUCLEAR REACTIONS ^{59}Co , ^{197}Au , ^{181}Ta , $^{64}\text{Zn}(n, \gamma)$, ^{59}Co , ^{27}Al , ^{181}Ta , ^{115}In , ^{64}Zn , ^{65}Cu , $^{115}\text{In}(n, n')$, Pb(p, xn) ^{203}Bi / ^{204}Bi / ^{205}Bi / ^{206}Bi , In(p, xn) ^{113}Sn , ^{59}Co , $^{209}\text{Bi}(p, 3n)$, $^{63}\text{Cu}(p, 2n)$, ^{209}Bi , ^{169}Tm , ^{93}Nb , $^{65}\text{Cu}(p, 4n)$, E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=114

- ^{114}In 2010HE01 NUCLEAR REACTIONS $^{116}\text{Cd}(p, 4n)$, (p, 3n), (p, 2n), (p, n), (p, pn), E<36 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE and EMPIRE codes. JOUR ARISE 68 14

A=115

- ^{115}Cd 2009VIZZ NUCLEAR REACTIONS ^{116}Cd , $^{121}\text{Sb}(\gamma, n)$, E(end point)=9.6-10.5 MeV; measured E γ , I γ . ^{115}Cd , ^{120}Sb ; deduced isomeric yield ratios depending on E γ . CONF Cheboksary,P137,Vishnevsky
- 2010HE01 NUCLEAR REACTIONS $^{116}\text{Cd}(p, 4n)$, (p, 3n), (p, 2n), (p, n), (p, pn), E<36 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE and EMPIRE codes. JOUR ARISE 68 14
- ^{115}In 2009M023 ATOMIC MASSES ^{115}In , ^{115}Sn ; measured cyclotron frequency ratios with Penning Trap mass spectrometer; deduced atomic masses, ^{115}In - ^{115}Sn Q-value. JOUR PRLTA 103 122502

A=115 (continued)

- 2009TI09 NUCLEAR REACTIONS ^{59}Co , ^{197}Au , ^{181}Ta , $^{64}\text{Zn}(n, \gamma)$, ^{59}Co , ^{27}Al , ^{181}Ta , ^{115}In , ^{64}Zn , ^{65}Cu , $^{115}\text{In}(n, n')$, $\text{Pb}(p, xn)^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi}$, $\text{In}(p, xn)^{113}\text{Sn}$, ^{59}Co , $^{209}\text{Bi}(p, 3n)$, $^{63}\text{Cu}(p, 2n)$, ^{209}Bi , ^{169}Tm , ^{93}Nb , $^{65}\text{Cu}(p, 4n)$, $E=0.8$ GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- 2009WI10 ATOMIC MASSES ^{115}In , ^{115}Sn ; measured TOF ion-cyclotron resonance using Penning Trap mass spectrometer, $E\gamma$, $I\gamma$; deduced ^{115}In - ^{115}Sn Q-value, $T_{1/2}$. JOUR PRLTA 103 122501
- 2010HE01 NUCLEAR REACTIONS $^{116}\text{Cd}(p, 4n)$, $(p, 3n)$, $(p, 2n)$, (p, n) , (p, pn) , $E<36$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE and EMPIRE codes. JOUR ARISE 68 14
- ^{115}Sn 2009M023 ATOMIC MASSES ^{115}In , ^{115}Sn ; measured cyclotron frequency ratios with Penning Trap mass spectrometer; deduced atomic masses, ^{115}In - ^{115}Sn Q-value. JOUR PRLTA 103 122502
- 2009WI10 ATOMIC MASSES ^{115}In , ^{115}Sn ; measured TOF ion-cyclotron resonance using Penning Trap mass spectrometer, $E\gamma$, $I\gamma$; deduced ^{115}In - ^{115}Sn Q-value, $T_{1/2}$. JOUR PRLTA 103 122501

A=116

- ^{116}Cd 2009K0ZY RADIOACTIVITY ^{48}Ca , ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , ^{130}Te , $^{150}\text{Nd}(2\beta^-)$; measured $0\nu 2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu 2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- ^{116}In 2009SA48 NUCLEAR REACTIONS ^{48}Ca , $^{116}\text{Cd}(p, n)$, ^{48}Ti , $^{116}\text{Sn}(n, p)$, $E=300$ MeV; measured $\sigma(\theta, E)$; deduced GT plus IVSM strength distributions. Comparison with fp-shell model space and GXPF1A interaction. JOUR IMPEE 18 2119
- 2010HE01 NUCLEAR REACTIONS $^{116}\text{Cd}(p, 4n)$, $(p, 3n)$, $(p, 2n)$, (p, n) , (p, pn) , $E<36$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE and EMPIRE codes. JOUR ARISE 68 14
- ^{116}Sn 2009K0ZY RADIOACTIVITY ^{48}Ca , ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , ^{130}Te , $^{150}\text{Nd}(2\beta^-)$; measured $0\nu 2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu 2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov

A=117

- ^{117}In 2010RA01 NUCLEAR REACTIONS $\text{In}(\gamma, xn)^{110}\text{In}$, $^{113}\text{In}(\gamma, 2n)$, ^{111}In , $\text{In}(\gamma, xn)$, ^{111}In , $^{113}\text{In}(\gamma, n)$, ^{112}In , $\text{In}(\gamma, xn)$, ^{112}In , $^{118}\text{Sn}(\gamma, p)$, ^{117}In , $\text{Sn}(\gamma, xnp)^{117}\text{In}$, $E<70$ MeV; measured $E\gamma$, $I\gamma$; deduced isomeric yield ratios. Comparison with other values. JOUR NIMBE 268 13

A=118

- ^{118}Sn 2007WAZS NUCLEAR REACTIONS $^{118}\text{Sn}(^{64}\text{Ni}, ^{64}\text{Ni}')$, E=215-260 MeV; measured E(particle), I(particle), θ (particle) backscattering; deduced quasielastic σ , barrier distribution. REPT JAEA-Review 2007-046,P51,Watanabe
- 2009WAZX NUCLEAR REACTIONS $^{124}\text{Sn}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195-245 MeV; $^{118}\text{Sn}(^{64}\text{Ni}, ^{64}\text{Ni}')$, E=215-260 MeV; measured E(particle), I(particle), θ (particle) at backward angles; deduced σ , $d\sigma$; calculated σ , $d\sigma$ using CC code CCFULL. Both reactions produce the same composite system. CONF Tokai (Perspective in Nuc Phys), Proc.P280,Watanabe

A=119

- ^{119}Te 2009MAZY NUCLEAR REACTIONS $^{120,122,130}\text{Te}(\gamma, n)$, E(end point)=17.5 MeV; measured $E\gamma$, $I\gamma$. $^{119,121,129}\text{Te}$; deduced isomeric yield ratios. CONF Cheboksary,P130,Mazur

A=120

- ^{120}Sn 2009DEZW NUCLEAR REACTIONS $^{120}\text{Sn}(^7\text{Li}, ^7\text{Li})$, E=19.5, 20.5, 25 MeV; $^{120}\text{Sn}(^7\text{Li}, ^7\text{Li}')$, E=19.5, 20.5, 25 MeV; $^{120}\text{Sn}(^7\text{Li}, ^6\text{Li})$, E=19.5, 20.5, 25 MeV; $^{120}\text{Sn}(^6\text{Li}, ^6\text{Li}')$, E=19.5 MeV; measured E(particle), I(particle), θ (particle); deduced $d\sigma$, nuclear densities; calculated $d\sigma$ using optical model with Sao Paulo potential. CONF Brazil (Nuclear Physics 2008) Proc. P106,de Sousa
- 2009LIZY NUCLEAR REACTIONS $^{51}\text{V}(^8\text{Li}, ^8\text{Li})$, E=26 MeV; $^{51}\text{V}(^6\text{He}, ^6\text{He})$, E=15.4, 23 MeV; $^{120}\text{Sn}(^6\text{He}, ^6\text{He})$, E=17.4, 17.1, 19.8, 20.5 MeV; measured E(particle), θ (particle), I(particle); deduced $d\sigma$; calculated $d\sigma$ using CDCC; $^{120}\text{Sn}(^6\text{He}, \alpha)$, E=17.4, 17.1, 19.8, 20.5 MeV; measured $E\alpha$, $I\alpha$, $\theta\alpha$; deduced $d\sigma$; calculated $d\sigma$ using CDCC and Transfer-to-Continuum DWBA; $^{120}\text{Sn}(^6\text{He}, ^5\text{He})$, E=17.4, 17.1, 19.8, 20.5 MeV; calculated $d\sigma$. RIBRAS system. CONF Brazil (Nuclear Physics 2008) Proc. P76,Lichtenthaler
- ^{120}Sb 2009VIZZ NUCLEAR REACTIONS $^{116}\text{Cd}, ^{121}\text{Sb}(\gamma, n)$, E(end point)=9.6-10.5 MeV; measured $E\gamma$, $I\gamma$. $^{115}\text{Cd}, ^{120}\text{Sb}$; deduced isomeric yield ratios depending on $E\gamma$. CONF Cheboksary,P137,Vishnevsky
- ^{120}Te 2009GU27 RADIOACTIVITY $^{120}\text{I}(\text{EC})$; measured $E\gamma$. ^{120}I ; deduced ground-state half-life. JOUR PRVCA 80 035804
- ^{120}I 2009GU27 NUCLEAR REACTIONS $^{120}\text{Te}(p, \gamma)$, (p, n), E(cm)=2.47-7.93 MeV; measured $E\gamma$, $I\gamma$, half-life, σ by activation method; deduced astrophysical S factors. Comparison with statistical model calculations using NON-SMOKER and TALYS computer codes. JOUR PRVCA 80 035804
- 2009GU27 RADIOACTIVITY $^{120}\text{I}(\text{EC})$; measured $E\gamma$. ^{120}I ; deduced ground-state half-life. JOUR PRVCA 80 035804

A=121

- ¹²¹Sn 2009DEZW NUCLEAR REACTIONS ¹²⁰Sn(⁷Li, ⁷Li), E=19.5, 20.5, 25 MeV; ¹²⁰Sn(⁷Li, ⁷Li'), E=19.5, 20.5, 25 MeV; ¹²⁰Sn(⁷Li, ⁶Li), E=19.5, 20.5, 25 MeV; ¹²⁰Sn(⁶Li, ⁶Li'), E=19.5 MeV; measured E(particle), I(particle), θ (particle); deduced $d\sigma$, nuclear densities; calculated $d\sigma$ using optical model with Sao Paulo potential. CONF Brazil (Nuclear Physics 2008) Proc. P106, de Sousa
- 2009LIZY NUCLEAR REACTIONS ⁵¹V(⁸Li, ⁸Li), E=26 MeV; ⁵¹V(⁶He, ⁶He), E=15.4, 23 MeV; ¹²⁰Sn(⁶He, ⁶He), E=17.4, 17.1, 19.8, 20.5 MeV; measured E(particle), θ (particle), I(particle); deduced $d\sigma$; calculated $d\sigma$ using CDCC; ¹²⁰Sn(⁶He, α), E=17.4, 17.1, 19.8, 20.5 MeV; measured $E\alpha$, $I\alpha$, $\theta\alpha$; deduced $d\sigma$; calculated $d\sigma$ using CDCC and Transfer-to-Continuum DWBA; ¹²⁰Sn(⁶He, ⁵He), E=17.4, 17.1, 19.8, 20.5 MeV; calculated $d\sigma$. RIBRAS system. CONF Brazil (Nuclear Physics 2008) Proc. P76, Lichtenthaler
- ¹²¹Te 2009MAZY NUCLEAR REACTIONS ^{120,122,130}Te(γ , n), E(end point)=17.5 MeV; measured $E\gamma$, $I\gamma$. ^{119,121,129}Te; deduced isomeric yield ratios. CONF Cheboksary, P130, Mazur
- ¹²¹I 2009GU27 NUCLEAR REACTIONS ¹²⁰Te(p, γ), (p, n), E(cm)=2.47-7.93 MeV; measured $E\gamma$, $I\gamma$, half-life, σ by activation method; deduced astrophysical S factors. Comparison with statistical model calculations using NON-SMOKER and TALYS computer codes. JOUR PRVCA 80 035804

A=122

- ¹²²Sn 2009LIZY NUCLEAR REACTIONS ⁵¹V(⁸Li, ⁸Li), E=26 MeV; ⁵¹V(⁶He, ⁶He), E=15.4, 23 MeV; ¹²⁰Sn(⁶He, ⁶He), E=17.4, 17.1, 19.8, 20.5 MeV; measured E(particle), θ (particle), I(particle); deduced $d\sigma$; calculated $d\sigma$ using CDCC; ¹²⁰Sn(⁶He, α), E=17.4, 17.1, 19.8, 20.5 MeV; measured $E\alpha$, $I\alpha$, $\theta\alpha$; deduced $d\sigma$; calculated $d\sigma$ using CDCC and Transfer-to-Continuum DWBA; ¹²⁰Sn(⁶He, ⁵He), E=17.4, 17.1, 19.8, 20.5 MeV; calculated $d\sigma$. RIBRAS system. CONF Brazil (Nuclear Physics 2008) Proc. P76, Lichtenthaler

A=123

No references found

A=124

- ¹²⁴Sn 2008WAZX NUCLEAR REACTIONS ¹²⁴Sn(⁶⁴Ni, ⁶⁴Ni'), E(cm) \approx 140-170 MeV; measured E(particle), I(particle), θ (particle) backscattering; deduced quasielastic σ . REPT JAEA-Review 2008-054, P51, Watanabe

A=124 (continued)

	2009WAZX	NUCLEAR REACTIONS $^{124}\text{Sn}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195-245 MeV; $^{118}\text{Sn}(^{64}\text{Ni}, ^{64}\text{Ni}')$, E=215-260 MeV; measured E(particle), I(particle), θ (particle) at backward angles; deduced σ , $d\sigma$; calculated σ , $d\sigma$ using CC code CCFULL. Both reactions produce the same composite system. CONF Tokai (Perspective in Nuc Phys), Proc.P280,Watanabe
^{124}Sb	2009BEZZ	RADIOACTIVITY $^{124}\text{Sb}(\beta^-)$; measured E β , I β , E γ , I γ , E(K X-ray), I(K X-ray), $\beta\gamma$ -coin, $T_{1/2}$. Comparison of multiple measurements by different laboratories. REPT CEA-R-6222,Be
^{124}Te	2009BEZZ	RADIOACTIVITY $^{124}\text{Sb}(\beta^-)$; measured E β , I β , E γ , I γ , E(K X-ray), I(K X-ray), $\beta\gamma$ -coin, $T_{1/2}$. Comparison of multiple measurements by different laboratories. REPT CEA-R-6222,Be

A=125

^{125}Xe	2010TA01	NUCLEAR REACTIONS $^{133}\text{Cs}(p, x)^{128}\text{Ba} / ^{129}\text{Ba} / ^{133}\text{Ba} / ^{127}\text{Cs} / ^{129}\text{Cs} / ^{132}\text{Cs} / ^{125}\text{Xe} / ^{127}\text{Xe} / ^{129}\text{Xe}$, Ti(p, x) ^{48}V , Al(p, x) ^{24}Na , E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
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A=126

^{126}Sn	2009BI07	RADIOACTIVITY $^{126}\text{Sn}(\beta^-)$ [from $^{235}\text{U}(n, F)$]; measured E γ , I γ ; deduced $T_{1/2}$. JOUR RAACA 97 687
^{126}Sb	2009BI07	RADIOACTIVITY $^{126}\text{Sn}(\beta^-)$ [from $^{235}\text{U}(n, F)$]; measured E γ , I γ ; deduced $T_{1/2}$. JOUR RAACA 97 687

A=127

^{127}Te	2009BAZV	RADIOACTIVITY $^{127}\text{Te}(\beta^-)$ [from $^{126}\text{Te}+n$]; measured E γ , I γ ; deduced half-life. CONF Brazil (Nuclear Physics 2008) Proc. P187,Batista
^{127}I	2009BAZV	RADIOACTIVITY $^{127}\text{Te}(\beta^-)$ [from $^{126}\text{Te}+n$]; measured E γ , I γ ; deduced half-life. CONF Brazil (Nuclear Physics 2008) Proc. P187,Batista
^{127}Xe	2010TA01	NUCLEAR REACTIONS $^{133}\text{Cs}(p, x)^{128}\text{Ba} / ^{129}\text{Ba} / ^{133}\text{Ba} / ^{127}\text{Cs} / ^{129}\text{Cs} / ^{132}\text{Cs} / ^{125}\text{Xe} / ^{127}\text{Xe} / ^{129}\text{Xe}$, Ti(p, x) ^{48}V , Al(p, x) ^{24}Na , E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
^{127}Cs	2010TA01	NUCLEAR REACTIONS $^{133}\text{Cs}(p, x)^{128}\text{Ba} / ^{129}\text{Ba} / ^{133}\text{Ba} / ^{127}\text{Cs} / ^{129}\text{Cs} / ^{132}\text{Cs} / ^{125}\text{Xe} / ^{127}\text{Xe} / ^{129}\text{Xe}$, Ti(p, x) ^{48}V , Al(p, x) ^{24}Na , E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

A=128

¹²⁸Ba 2010TA01 NUCLEAR REACTIONS ¹³³Cs(p, x)¹²⁸Ba / ¹²⁹Ba / ¹³³Ba / ¹²⁷Cs / ¹²⁹Cs / ¹³²Cs / ¹²⁵Xe / ¹²⁷Xe / ¹²⁹Xe, Ti(p, x)⁴⁸V, Al(p, x)²⁴Na, E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

A=129

¹²⁹Te 2009MAZY NUCLEAR REACTIONS ^{120,122,130}Te(γ , n), E(end point)=17.5 MeV; measured E γ , I γ . ^{119,121,129}Te; deduced isomeric yield ratios. CONF Cheboksary,P130,Mazur

¹²⁹Xe 2010TA01 NUCLEAR REACTIONS ¹³³Cs(p, x)¹²⁸Ba / ¹²⁹Ba / ¹³³Ba / ¹²⁷Cs / ¹²⁹Cs / ¹³²Cs / ¹²⁵Xe / ¹²⁷Xe / ¹²⁹Xe, Ti(p, x)⁴⁸V, Al(p, x)²⁴Na, E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

¹²⁹Cs 2010TA01 NUCLEAR REACTIONS ¹³³Cs(p, x)¹²⁸Ba / ¹²⁹Ba / ¹³³Ba / ¹²⁷Cs / ¹²⁹Cs / ¹³²Cs / ¹²⁵Xe / ¹²⁷Xe / ¹²⁹Xe, Ti(p, x)⁴⁸V, Al(p, x)²⁴Na, E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

¹²⁹Ba 2010TA01 NUCLEAR REACTIONS ¹³³Cs(p, x)¹²⁸Ba / ¹²⁹Ba / ¹³³Ba / ¹²⁷Cs / ¹²⁹Cs / ¹³²Cs / ¹²⁵Xe / ¹²⁷Xe / ¹²⁹Xe, Ti(p, x)⁴⁸V, Al(p, x)²⁴Na, E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

A=130

¹³⁰Te 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay T_{1/2} lower limit, $2\nu 2\beta^-$ -decay T_{1/2}. CONF Cheboksary,P84,Kochetov

¹³⁰Xe 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu 2\beta^-$ -decay T_{1/2} lower limit, $2\nu 2\beta^-$ -decay T_{1/2}. CONF Cheboksary,P84,Kochetov

A=131

¹³¹Sb 2009TA23 RADIOACTIVITY ¹³²Te(β^-)[from U(p, X)¹³²Sb, E=50 MeV]; measured E γ , I γ , half-life. ¹³¹Sb, ¹³¹Te, ^{131,133}I, ^{131,132}I(β^-); measured E γ . ¹³²I; deduced level, J, π and magnetic moment. JOUR PRVCA 80 034304

¹³¹Te 2009TA23 RADIOACTIVITY ¹³²Te(β^-)[from U(p, X)¹³²Sb, E=50 MeV]; measured E γ , I γ , half-life. ¹³¹Sb, ¹³¹Te, ^{131,133}I, ^{131,132}I(β^-); measured E γ . ¹³²I; deduced level, J, π and magnetic moment. JOUR PRVCA 80 034304

¹³¹I 2009TA23 RADIOACTIVITY ¹³²Te(β^-)[from U(p, X)¹³²Sb, E=50 MeV]; measured E γ , I γ , half-life. ¹³¹Sb, ¹³¹Te, ^{131,133}I, ^{131,132}I(β^-); measured E γ . ¹³²I; deduced level, J, π and magnetic moment. JOUR PRVCA 80 034304

A=131 (continued)

^{131}Xe	2009TA23	RADIOACTIVITY $^{132}\text{Te}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})^{132}\text{Sb}$, $E=50$ MeV]; measured $E\gamma$, $I\gamma$, half-life. ^{131}Sb , ^{131}Te , $^{131,133}\text{I}$, $^{131,132}\text{I}(\beta^-)$; measured $E\gamma$. ^{132}I ; deduced level, J , π and magnetic moment. JOUR PRVCA 80 034304
^{131}Cs	2010TA01	RADIOACTIVITY $^{131}\text{Ba}(\text{EC})$ [from $^{133}\text{Cs}(\text{p}, 3\text{n})$]; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
^{131}Ba	2010TA01	RADIOACTIVITY $^{131}\text{Ba}(\text{EC})$ [from $^{133}\text{Cs}(\text{p}, 3\text{n})$]; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

A=132

^{132}Te	2009TA23	RADIOACTIVITY $^{132}\text{Te}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})^{132}\text{Sb}$, $E=50$ MeV]; measured $E\gamma$, $I\gamma$, half-life. ^{131}Sb , ^{131}Te , $^{131,133}\text{I}$, $^{131,132}\text{I}(\beta^-)$; measured $E\gamma$. ^{132}I ; deduced level, J , π and magnetic moment. JOUR PRVCA 80 034304
^{132}I	2009TA23	RADIOACTIVITY $^{132}\text{Te}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})^{132}\text{Sb}$, $E=50$ MeV]; measured $E\gamma$, $I\gamma$, half-life. ^{131}Sb , ^{131}Te , $^{131,133}\text{I}$, $^{131,132}\text{I}(\beta^-)$; measured $E\gamma$. ^{132}I ; deduced level, J , π and magnetic moment. JOUR PRVCA 80 034304
	2009TA23	NUCLEAR MOMENTS ^{132}I ; measured magnetic moment of the first excited state using time-differential perturbed angular correlation technique. JOUR PRVCA 80 034304
^{132}Xe	2009TA23	RADIOACTIVITY $^{132}\text{Te}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})^{132}\text{Sb}$, $E=50$ MeV]; measured $E\gamma$, $I\gamma$, half-life. ^{131}Sb , ^{131}Te , $^{131,133}\text{I}$, $^{131,132}\text{I}(\beta^-)$; measured $E\gamma$. ^{132}I ; deduced level, J , π and magnetic moment. JOUR PRVCA 80 034304
^{132}Cs	2010TA01	NUCLEAR REACTIONS $^{133}\text{Cs}(\text{p}, \text{x})^{128}\text{Ba} / ^{129}\text{Ba} / ^{133}\text{Ba} / ^{127}\text{Cs} / ^{129}\text{Cs} / ^{132}\text{Cs} / ^{125}\text{Xe} / ^{127}\text{Xe} / ^{129}\text{Xe}$, $\text{Ti}(\text{p}, \text{x})^{48}\text{V}$, $\text{Al}(\text{p}, \text{x})^{24}\text{Na}$, $E < 70$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47
^{132}Ba	2009SU18	NUCLEAR REACTIONS $^{132}\text{Ba}(\text{polarized d}, \text{p})$, $E=24$ MeV; measured $\sigma(\theta)$, $A\gamma$; comparison with continuum discretized coupled channel predictions. DWBA analysis. ^{132}Ba ; deduced levels, J , π , branching ratios, spectroscopic factor, configurations, $B(\text{M}1)$, $B(\text{E}2)$; comparison with evaluated and other data and the interacting Boson-Fermion model. JOUR ZAANE 41 299

A=133

^{133}Te	2009VIZY	NUCLEAR REACTIONS ^{239}Pu , $^{241}\text{Am}(\gamma, \text{f})$, $E(\text{end point})=10, 17$ MeV; measured $E\gamma$, $I\gamma$. ^{84}Br , ^{133}Te , ^{135}Xe ; deduced isomeric yield ratios. Activation method CONF Cheboksary,P138,Vishnevsky
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A=133 (continued)

- ¹³³I 2009TA23 RADIOACTIVITY ¹³²Te(β^-)[from U(p, X)¹³²Sb, E=50 MeV]; measured E γ , I γ , half-life. ¹³¹Sb, ¹³¹Te, ^{131,133}I, ^{131,132}I(β^-); measured E γ . ¹³²I; deduced level, J, π and magnetic moment. JOUR PRVCA 80 034304
- ¹³³Xe 2009TA23 RADIOACTIVITY ¹³²Te(β^-)[from U(p, X)¹³²Sb, E=50 MeV]; measured E γ , I γ , half-life. ¹³¹Sb, ¹³¹Te, ^{131,133}I, ^{131,132}I(β^-); measured E γ . ¹³²I; deduced level, J, π and magnetic moment. JOUR PRVCA 80 034304
- ¹³³Ba 2009SU18 NUCLEAR REACTIONS ¹³²Ba(polarized d, p), E=24 MeV; measured $\sigma(\theta)$, Ay; comparison with continuum discretized coupled channel predictions. DWBA analysis. ¹³²Ba; deduced levels, J, π , branching ratios, spectroscopic factor, configurations, B(M1), B(E2); comparison with evaluated and other data and the interacting Boson-Fermion model. JOUR ZAANE 41 299
- 2010TA01 NUCLEAR REACTIONS ¹³³Cs(p, x)¹²⁸Ba / ¹²⁹Ba / ¹³³Ba / ¹²⁷Cs / ¹²⁹Cs / ¹³²Cs / ¹²⁵Xe / ¹²⁷Xe / ¹²⁹Xe, Ti(p, x)⁴⁸V, Al(p, x)²⁴Na, E < 70 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II and TALYS computer codes. JOUR ARISE 68 47

A=134

No references found

A=135

- ¹³⁵Xe 2009VIZY NUCLEAR REACTIONS ²³⁹Pu, ²⁴¹Am(γ , f), E(end point)=10, 17 MeV; measured E γ , I γ . ⁸⁴Br, ¹³³Te, ¹³⁵Xe; deduced isomeric yield ratios. Activation method CONF Cheboksary,P138,Vishnevsky

A=136

- ¹³⁶Xe 2009NE11 ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146}Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323

A=137

- ¹³⁷I 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314
- ¹³⁷Xe 2009NE11 ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146}Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
- ¹³⁷Cs 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- ¹³⁷Ba 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes

A=138

- ¹³⁸Xe 2009NE11 ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146}Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
- ¹³⁸Cs 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- ¹³⁸Ba 2008SHZT RADIOACTIVITY ^{88,89}Rb, ^{92,93,94,95}Y, ^{138,139}Cs, ¹³⁹Ba, ^{142,143}La(β^-)[from ²³⁸U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
- 2009EN03 NUCLEAR REACTIONS ¹³⁸Ba, ¹⁴⁰Ce(α , $\alpha'\gamma$), E=136 MeV; measured E γ , I γ , $\alpha\gamma$ -coin, σ , angular correlations. ¹³⁸Ba, ¹⁴⁰Ce; deduced levels, J, π and E1 strength distributions for pygmy dipole resonances. JOUR PRVCA 80 034302

A=139

^{139}Xe	2009NE11	ATOMIC MASSES $^{136,137,138,139,140,141,142,143,144,145,146}\text{Xe}$; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. $Z=50-78$, $N=78-112$; systematics of $S(2n)$ values. $N=74-92$, $Z=52-58$, even Z ; $N=119-141$, odd N , $Z=84-90$, odd Z ; $Z=50-82$, $N=82-126$; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
^{139}Cs	2008SHZT	RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
	2009LI42	RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ^{137}I , ^{139}Cs ; deduced levels, J , π , bands, multipolarities and mixing ratios. $^{108,109,110}\text{Tc}$, $^{111,113}\text{Rh}$; measured $E\gamma$, $\gamma\gamma$ -coin. Comparison with shell-model calculations. $A=133-141$ (odd), $Z=55$; $N=84$, Sb , I , Cs , La ; $A=132-140$ (even), $Z=52$, 54 , 56 ; systematics of low-lying states. JOUR PRVCA 80 044314
^{139}Ba	2008SHZT	RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
^{139}La	2008SHZT	RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
	2009GAZY	RADIOACTIVITY $^{139}\text{Ce}(\text{EC})$; measured $I\gamma$, $I(\text{X-ray})$, $E(\text{X-rays})$, $\gamma\text{-X-rays-coin.}$, X-rays-e-coin ; deduced K-capture probability. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P59,Ganbaatar
	2009MAZT	NUCLEAR REACTIONS $^{139}\text{La}(\gamma, \gamma')$, $E\approx 5.5-13$ MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; deduced σ . CONF Tokai (Perspective in Nuc Phys), Proc.P289,Makinaga
^{139}Ce	2009GAZY	RADIOACTIVITY $^{139}\text{Ce}(\text{EC})$; measured $I\gamma$, $I(\text{X-ray})$, $E(\text{X-rays})$, $\gamma\text{-X-rays-coin.}$, X-rays-e-coin ; deduced K-capture probability. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P59,Ganbaatar

A=140

^{140}Xe	2009NE11	ATOMIC MASSES $^{136,137,138,139,140,141,142,143,144,145,146}\text{Xe}$; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. $Z=50-78$, $N=78-112$; systematics of $S(2n)$ values. $N=74-92$, $Z=52-58$, even Z ; $N=119-141$, odd N , $Z=84-90$, odd Z ; $Z=50-82$, $N=82-126$; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
^{140}Ce	2009EN03	NUCLEAR REACTIONS ^{138}Ba , $^{140}\text{Ce}(\alpha, \alpha'\gamma)$, $E=136$ MeV; measured $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, σ , angular correlations. ^{138}Ba , ^{140}Ce ; deduced levels, J , π and $E1$ strength distributions for pygmy dipole resonances. JOUR PRVCA 80 034302

A=140 (continued)

2009GL02 NUCLEAR REACTIONS $^{143}\text{Nd}(n, \alpha)^{140}\text{Ce}$, E=4.0, 5.0, 6.0 MeV; $^{147}\text{Sm}(n, \alpha)^{144}\text{Nd}$, E=5.0, 6.0 MeV; measured α spectra, σ , forward and backward α rates. ^{143}Nd , $^{147}\text{Sm}(n, \alpha)$, E=0.5 keV-20 MeV; compared present and previous measured cross sections with several evaluations, and calculations from TALYS code. JOUR PRVCA 80 044602

A=141

^{141}Xe 2009NE11 ATOMIC MASSES $^{136,137,138,139,140,141,142,143,144,145,146}\text{Xe}$; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323

^{141}Nd 2009PAZZ NUCLEAR REACTIONS ^{110}Pd , ^{142}Nd , $^{144}\text{Sm}(\gamma, n)$, E=27, 28, 29, 30 MeV; measured $E\gamma$, $I\gamma$. ^{109}Pd ; deduced isomeric yield ratios depending on $E\gamma$. Activation technique. CONF Cheboksary,P146,Palvanov

A=142

^{142}Xe 2009NE11 ATOMIC MASSES $^{136,137,138,139,140,141,142,143,144,145,146}\text{Xe}$; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323

^{142}La 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata

^{142}Ce 2008SHZT RADIOACTIVITY $^{88,89}\text{Rb}$, $^{92,93,94,95}\text{Y}$, $^{138,139}\text{Cs}$, ^{139}Ba , $^{142,143}\text{La}(\beta^-)$ [from $^{238}\text{U}+p$]; measured $E\beta$, $I\beta$, $E\gamma$, $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata

A=143

^{143}Xe 2009NE11 ATOMIC MASSES $^{136,137,138,139,140,141,142,143,144,145,146}\text{Xe}$; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323

A=143 (continued)

¹⁴³ La	2008SHZT	RADIOACTIVITY ^{88,89} Rb, ^{92,93,94,95} Y, ^{138,139} Cs, ¹³⁹ Ba, ^{142,143} La(β^-)[from ²³⁸ U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
¹⁴³ Ce	2008SHZT	RADIOACTIVITY ^{88,89} Rb, ^{92,93,94,95} Y, ^{138,139} Cs, ¹³⁹ Ba, ^{142,143} La(β^-)[from ²³⁸ U+p]; measured E β , I β , E γ , $\beta\gamma$ -coin.; deduced β decay energies. REPT JAEA-Review 2008-054,P42,Shibata
¹⁴³ Sm	2009PAZZ	NUCLEAR REACTIONS ¹¹⁰ Pd, ¹⁴² Nd, ¹⁴⁴ Sm(γ , n), E=27, 28, 29, 30 MeV; measured E γ , I γ . ¹⁰⁹ Pd; deduced isomeric yield ratios depending on E γ . Activation technique. CONF Cheboksary,P146,Palvanov

A=144

¹⁴⁴ Xe	2009NE11	ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146} Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
¹⁴⁴ Nd	2009GL02	NUCLEAR REACTIONS ¹⁴³ Nd(n, α) ¹⁴⁰ Ce, E=4.0, 5.0, 6.0 MeV; ¹⁴⁷ Sm(n, α) ¹⁴⁴ Nd, E=5.0, 6.0 MeV; measured α spectra, σ , forward and backward α rates. ¹⁴³ Nd, ¹⁴⁷ Sm(n, α), E=0.5 keV-20 MeV; compared present and previous measured cross sections with several evaluations, and calculations from TALYS code. JOUR PRVCA 80 044602
¹⁴⁴ Sm	2009CAZY	NUCLEAR REACTIONS ¹⁴⁴ Sm(⁶ Li, ⁶ Li'), E=14-35 MeV; ¹⁴⁴ Sm(⁷ Li, ⁷ Li'), E=12-32 MeV; measured E(particle), I(particle), θ (particle), Z(particle); deduced σ , d σ , barrier distributions; calculated barrier distributions using simplified CC. CONF Brazil (Nuclear Physics 2008) Proc. P111,Capurro

A=145

¹⁴⁵ Xe	2009NE11	ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146} Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323
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A=146

- ¹⁴⁶Xe 2009NE11 ATOMIC MASSES ^{136,137,138,139,140,141,142,143,144,145,146}Xe; measured masses using the ISOLTRAP double Penning-trap mass spectrometer at ISOLDE-CERN facility. Comparison with earlier measurements and AME-2003 evaluation. Z=50-78, N=78-112; systematics of S(2n) values. N=74-92, Z=52-58, even Z; N=119-141, odd N, Z=84-90, odd Z; Z=50-82, N=82-126; systematics of proton-neutron interaction strengths. JOUR PRVCA 80 044323

A=147

No references found

A=148

- ¹⁴⁸Pm 2009ZIZZ NUCLEAR REACTIONS ¹⁵⁰Sm(μ^- , $n\nu$), E not given; measured E γ , I γ , μ capture rates. ^{150,149m,149,148m,148}Pm, ¹⁴⁹Nd; deduced yields. CONF Cheboksary,P81,Zinatulina

A=149

- ¹⁴⁹Nd 2009ZIZZ NUCLEAR REACTIONS ¹⁵⁰Sm(μ^- , $n\nu$), E not given; measured E γ , I γ , μ capture rates. ^{150,149m,149,148m,148}Pm, ¹⁴⁹Nd; deduced yields. CONF Cheboksary,P81,Zinatulina
- ¹⁴⁹Pm 2009ZIZZ NUCLEAR REACTIONS ¹⁵⁰Sm(μ^- , $n\nu$), E not given; measured E γ , I γ , μ capture rates. ^{150,149m,149,148m,148}Pm, ¹⁴⁹Nd; deduced yields. CONF Cheboksary,P81,Zinatulina

A=150

- ¹⁵⁰Nd 2009AR10 RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); measured E(e), E γ , I γ , angle between two electrons; deduced half-lives for $2\nu\beta\beta$ and $0\nu\beta\beta$ decay modes. NEMO-3 detector. JOUR PRVCA 80 032501
- 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov
- ¹⁵⁰Pm 2009ZIZZ NUCLEAR REACTIONS ¹⁵⁰Sm(μ^- , $n\nu$), E not given; measured E γ , I γ , μ capture rates. ^{150,149m,149,148m,148}Pm, ¹⁴⁹Nd; deduced yields. CONF Cheboksary,P81,Zinatulina
- ¹⁵⁰Sm 2009AR10 RADIOACTIVITY ¹⁵⁰Nd($2\beta^-$); measured E(e), E γ , I γ , angle between two electrons; deduced half-lives for $2\nu\beta\beta$ and $0\nu\beta\beta$ decay modes. NEMO-3 detector. JOUR PRVCA 80 032501
- 2009K0ZY RADIOACTIVITY ⁴⁸Ca, ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹³⁰Te, ¹⁵⁰Nd($2\beta^-$); measured $0\nu2\beta^-$ -decay $T_{1/2}$ lower limit, $2\nu2\beta^-$ -decay $T_{1/2}$. CONF Cheboksary,P84,Kochetov

A=151

No references found

A=152

- ¹⁵²Sm 2009INZX RADIOACTIVITY ^{152,154}Eu(β^-), (EC), ¹⁵⁵Eu(β^-); measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ¹⁵²Eu 2009AGZY NUCLEAR REACTIONS ⁹⁵Mo(n, γ), ^{151,153}Eu(n, γ), ^{155,157}Gd(n, γ), E=10 meV-100 keV; measured E γ , I γ , γ multiplicity using DANCE BaF₂ array, In, En using TOF method; deduced J, π of n-resonances using DICEBOX code. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P11,Agvaanluvsan
- 2009INZX RADIOACTIVITY ^{152,154}Eu(β^-), (EC), ¹⁵⁵Eu(β^-); measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ¹⁵²Gd 2009INZX RADIOACTIVITY ^{152,154}Eu(β^-), (EC), ¹⁵⁵Eu(β^-); measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov

A=153

- ¹⁵³Sm 2009FR09 RADIOACTIVITY ¹⁵³Sm(β^-) [from ¹⁵²Sm(n, γ)]; measured E γ , I γ ; deduced T_{1/2}. Comparison with ENSDF data. JOUR JRNC D 282 369
- ¹⁵³Eu 2009FR09 RADIOACTIVITY ¹⁵³Sm(β^-) [from ¹⁵²Sm(n, γ)]; measured E γ , I γ ; deduced T_{1/2}. Comparison with ENSDF data. JOUR JRNC D 282 369
- ¹⁵³Gd 2009DAZV NUCLEAR REACTIONS ¹⁵²Gd(n, γ), E = low; measured E γ , I γ , $\gamma\gamma$ -coin., γ multiplicities; deduced photon strength functions. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P48,Dashdorj

A=154

- ¹⁵⁴Sm 2009INZX RADIOACTIVITY ^{152,154}Eu(β^-), (EC), ¹⁵⁵Eu(β^-); measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ¹⁵⁴Eu 2009AGZY NUCLEAR REACTIONS ⁹⁵Mo(n, γ), ^{151,153}Eu(n, γ), ^{155,157}Gd(n, γ), E=10 meV-100 keV; measured E γ , I γ , γ multiplicity using DANCE BaF₂ array, In, En using TOF method; deduced J, π of n-resonances using DICEBOX code. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P11,Agvaanluvsan

A=154 (continued)

- 2009INZX RADIOACTIVITY $^{152,154}\text{Eu}(\beta^-)$, (EC), $^{155}\text{Eu}(\beta^-)$; measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ^{154}Gd 2009GY01 RADIOACTIVITY $^{154}\text{Tb}(\text{IT})$, (β^+), (EC) [from $^{151}\text{Eu}(\alpha, n)$, E=13.5, 14.5, 15, 15.5, 17 MeV]; measured $E\gamma$, $I\gamma$ using HPGe detector; deduced $T_{1/2}$ of 1st isomeric state. JOUR NUPAB 828 1
- 2009INZX RADIOACTIVITY $^{152,154}\text{Eu}(\beta^-)$, (EC), $^{155}\text{Eu}(\beta^-)$; measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ^{154}Tb 2009GY01 RADIOACTIVITY $^{154}\text{Tb}(\text{IT})$, (β^+), (EC) [from $^{151}\text{Eu}(\alpha, n)$, E=13.5, 14.5, 15, 15.5, 17 MeV]; measured $E\gamma$, $I\gamma$ using HPGe detector; deduced $T_{1/2}$ of 1st isomeric state. JOUR NUPAB 828 1
- ^{154}Dy 2009IJ01 NUCLEAR REACTIONS $^{122}\text{Sn}(^{36}\text{S}, 4n)$, E=165 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. ^{154}Dy ; deduced levels, J, π , superdeformed bands, dynamic moments of inertia, neutron single particle energies. Comparison with the cranked relativistic mean field calculations. JOUR PRVCA 80 034322

A=155

- ^{155}Pm 2009HW03 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{91,92,93}\text{Rb}$, $^{155,156}\text{Pm}$; deduced levels, J, π , bands. Comparison with level systematics of ^{89}Rb , ^{90}Kr and ^{92}Kr . JOUR PRVCA 80 037304
- ^{155}Eu 2009INZX RADIOACTIVITY $^{152,154}\text{Eu}(\beta^-)$, (EC), $^{155}\text{Eu}(\beta^-)$; measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov
- ^{155}Gd 2009INZX RADIOACTIVITY $^{152,154}\text{Eu}(\beta^-)$, (EC), $^{155}\text{Eu}(\beta^-)$; measured Auger spectrum. Sm, Gd; deduced Auger groups. Analyzed effect "Atomic Structure" on line energies. Electrostatic β -spectrometer, comparison with semiempirical data. CONF Cheboksary,P72,Inoyatov

A=156

- ^{156}Pm 2009HW03 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Gammasphere array. $^{91,92,93}\text{Rb}$, $^{155,156}\text{Pm}$; deduced levels, J, π , bands. Comparison with level systematics of ^{89}Rb , ^{90}Kr and ^{92}Kr . JOUR PRVCA 80 037304
- ^{156}Gd 2009AGZY NUCLEAR REACTIONS $^{95}\text{Mo}(n, \gamma)$, $^{151,153}\text{Eu}(n, \gamma)$, $^{155,157}\text{Gd}(n, \gamma)$, E=10 meV-100 keV; measured $E\gamma$, $I\gamma$, γ multiplicity using DANCE BaF₂ array, In, En using TOF method; deduced J, π of n-resonances using DICEBOX code. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P11,Agvaanluvsan

A=157

No references found

A=158

¹⁵⁸Gd 2009AGZY NUCLEAR REACTIONS ⁹⁵Mo(n, γ), ^{151,153}Eu(n, γ), ^{155,157}Gd(n, γ), E=10 meV-100 keV; measured E γ , I γ , γ multiplicity using DANCE BaF₂ array, In, En using TOF method; deduced J, π of n-resonances using DICEBOX code. CONF Ulaanbaatar (Nucl Phys and Appls) Proc.,P11,Agvaanluvsan

A=159

¹⁵⁹Sm 2009UR04 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ¹⁵⁹Sm; deduced levels, J, π and half-lives. Systematics of 11 / 2[505] band in N=87-97 Sm, Gd and Dy nuclei. Comparison with quasiparticle rotor model calculations. JOUR PRVCA 80 037301

A=160

¹⁶⁰Gd 2009G033 NUCLEAR REACTIONS ¹⁶⁰Gd(n, n' γ), E=fast; measured E γ , I γ ; deduced level scheme, rotational bands, $\sigma(\theta)$ of gamma rays. Comparison with quasiparticle-phonon model. JOUR PANUE 72 1799

¹⁶⁰Dy 2009KAZY RADIOACTIVITY ¹⁶⁰Ho(EC) [from ¹⁶⁵Ho(p, 6n), E=95 MeV]; measured E γ , I γ . ¹⁶⁰Dy; deduced levels. Synchrocyclotron, ion-exchanged separation. CONF Cheboksary,P74,Kalinnikov

¹⁶⁰Ho 2009KAZY RADIOACTIVITY ¹⁶⁰Ho(EC) [from ¹⁶⁵Ho(p, 6n), E=95 MeV]; measured E γ , I γ . ¹⁶⁰Dy; deduced levels. Synchrocyclotron, ion-exchanged separation. CONF Cheboksary,P74,Kalinnikov

A=161

No references found

A=162

No references found

A=163

No references found

A=164

No references found

A=165

No references found

A=166

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| ^{166}Eu | 2007SAZO | NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{f})^{166}\text{Eu}$, E=33 MeV; measured $E\gamma$, $\beta\gamma$ -coin., $\gamma\gamma$ -coin., particle- γ -coin., x-rays, time; deduced J, π of ^{166}Eu , ^{166}Gd . REPT JAEA-Review 2007-046,P32,Sato |
| | 2007SAZO | RADIOACTIVITY ^{166}Eu [from $^{238}\text{U}(\text{p}, \text{f})$, E=33 MeV]; measured $E\gamma$, $\beta\gamma$ -coin., $\gamma\gamma$ -coin., particle- γ -coin., x-rays, time; deduced half-life. REPT JAEA-Review 2007-046,P32,Sato |
| ^{166}Yb | 2009TI09 | NUCLEAR REACTIONS ^{59}Co , ^{197}Au , ^{181}Ta , $^{64}\text{Zn}(\text{n}, \gamma)$, ^{59}Co , ^{27}Al , ^{181}Ta , ^{115}In , ^{64}Zn , ^{65}Cu , $^{115}\text{In}(\text{n}, \text{n}')$, $\text{Pb}(\text{p}, \text{xn})^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi}$, $\text{In}(\text{p}, \text{xn})^{113}\text{Sn}$, ^{59}Co , $^{209}\text{Bi}(\text{p}, 3\text{n})$, $^{63}\text{Cu}(\text{p}, 2\text{n})$, ^{209}Bi , ^{169}Tm , ^{93}Nb , $^{65}\text{Cu}(\text{p}, 4\text{n})$, E=0.8 GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48 |

A=167

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|-------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ^{167}Ta | 2009HA33 | NUCLEAR REACTIONS $^{120}\text{Sn}(\text{V}, 4\text{n})$, E=235 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin and $\gamma\gamma(\theta)$ using Gammasphere array. ^{167}Ta ; deduced levels, J, π , triaxial superdeformed bands, normal deformed bands, dynamic moments of inertia, alignments and rotational frequency. Comparison with ultimate cranked (UC) calculations. JOUR PRVCA 80 041304 |
|-------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A=168

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|-------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ^{168}Ta | 2008QIZZ | NUCLEAR REACTIONS $^{145}\text{Nd}(\text{Al}, 4\text{n})$, E=140 MeV; measured $E\gamma$, $I\gamma$; deduced J, π , rotational bands, B(M1) / B(E2). REPT JAEA-Review 2008-054,P31,Qiang |
|-------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A=169

No references found

A=170

¹⁷⁰Yb 2009BE37 NUCLEAR REACTIONS ¹⁷²Yb(p, t), E=25 MeV; measured triton spectra, σ , $\sigma(\theta)$. ¹⁷⁰Yb; deduced levels, J, π . Comparison with sd- and sd-pf-interacting boson model (IBM) calculations. JOUR PRVCA 80 044333

A=171

No references found

A=172

¹⁷²Hf 2009CA20 NUCLEAR REACTIONS ^{172,178}Hf(γ , γ'), E=9.5352-9.5851 keV; measured E γ , I γ , $\gamma\gamma$ -coin; deduced integral σ and that induced depletion of 2nd metastable state not seen. JOUR PYLBB 679 203

A=173

No references found

A=174

¹⁷⁴Re 2007ZHZZ NUCLEAR REACTIONS ¹⁵²Sm(²⁷Al, 5n), E=125, 132, 140 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π , high-spin states, bands, signature splittings. REPT JAEA-Review 2007-046,P34,Zhang

A=175

¹⁷⁵Ta 2009SI25 NUCLEAR REACTIONS Hf(p, X)¹⁷⁷Lu / ¹⁷⁵Ta / ¹⁷⁶Ta / ¹⁷⁷Ta / ¹⁷⁸Ta, E=5.66-16.58 MeV; measured E γ , I γ ; deduced production σ . Comparison with EMPIRE nuclear model code. JOUR NIMBE 267 3500

A=176

¹⁷⁶Ta 2009SI25 NUCLEAR REACTIONS Hf(p, X)¹⁷⁷Lu / ¹⁷⁵Ta / ¹⁷⁶Ta / ¹⁷⁷Ta / ¹⁷⁸Ta, E=5.66-16.58 MeV; measured E γ , I γ ; deduced production σ . Comparison with EMPIRE nuclear model code. JOUR NIMBE 267 3500

A=177

- ¹⁷⁷Lu 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured E γ , I γ . ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF
Cheboksary,P142,Libanova
- 2009SI25 NUCLEAR REACTIONS Hf(p, X)¹⁷⁷Lu / ¹⁷⁵Ta / ¹⁷⁶Ta / ¹⁷⁷Ta / ¹⁷⁸Ta, E=5.66-16.58 MeV; measured E γ , Ig; deduced production σ . Comparison with EMPIRE nuclear model code. JOUR NIMBE 267 3500
- ¹⁷⁷Ta 2009SI25 NUCLEAR REACTIONS Hf(p, X)¹⁷⁷Lu / ¹⁷⁵Ta / ¹⁷⁶Ta / ¹⁷⁷Ta / ¹⁷⁸Ta, E=5.66-16.58 MeV; measured E γ , Ig; deduced production σ . Comparison with EMPIRE nuclear model code. JOUR NIMBE 267 3500
- ¹⁷⁷Pt 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured Ea. JOUR PRVCA 80 031303

A=178

- ¹⁷⁸Hf 2009CA20 NUCLEAR REACTIONS ^{172,178}Hf(γ , γ'), E=9.5352-9.5851 keV; measured E γ , I γ , $\gamma\gamma$ -coin; deduced integral σ and that induced depletion of 2nd metastable state not seen. JOUR PYLBB 679 203
- ¹⁷⁸Ta 2009HE15 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, ¹⁸¹Ta(d, 2n), (d, p), (d, p2n), (d, 4np), (d, xn2p), E<45 MeV; ¹⁷⁹Hf, ¹⁸⁰Hf; measured X-ray, E γ , I γ ; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
- 2009SI25 NUCLEAR REACTIONS Hf(p, X)¹⁷⁷Lu / ¹⁷⁵Ta / ¹⁷⁶Ta / ¹⁷⁷Ta / ¹⁷⁸Ta, E=5.66-16.58 MeV; measured E γ , Ig; deduced production σ . Comparison with EMPIRE nuclear model code. JOUR NIMBE 267 3500
- ¹⁷⁸Pt 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured Ea. JOUR PRVCA 80 031303

A=179

- ¹⁷⁹Hf 2009HE15 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, ¹⁸¹Ta(d, 2n), (d, p), (d, p2n), (d, 4np), (d, xn2p), E<45 MeV; ¹⁷⁹Hf, ¹⁸⁰Hf; measured X-ray, E γ , I γ ; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
- ¹⁷⁹Pt 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured Ea. JOUR PRVCA 80 031303

A=180

- ¹⁸⁰Hf 2009HE15 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, ¹⁸¹Ta(d, 2n), (d, p), (d, p2n), (d, 4np), (d, xn2p), E<45 MeV; ¹⁷⁹Hf, ¹⁸⁰Hf; measured X-ray, E γ , I γ ; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293

A=180 (continued)

^{180}Ta	2007SHZR	NUCLEAR REACTIONS $^{181}\text{Ta}(^{18}\text{O}, x)^{180}\text{Ta}$, E=180 MeV; $^{181}\text{Ta}(^{18}\text{O}, x)^{181}\text{Ta}$, E=180 MeV; $^{181}\text{Ta}(^{18}\text{O}, x)^{182}\text{Ta}$, E=180 MeV; measured $E\gamma$, $I\gamma$, particle- γ -coin. Coulomb excitation, neutron transfer. REPT JAEA-Review 2007-046,P36,Shizuma
	2009HE15	NUCLEAR REACTIONS $\text{Ti}(d, X)^{48}\text{V}$, $^{181}\text{Ta}(d, 2n)$, (d, p) , $(d, p2n)$, $(d, 4np)$, $(d, xn2p)$, E<45 MeV; ^{179}Hf , ^{180}Hf ; measured X-ray, $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
^{180}Pt	2009PA33	RADIOACTIVITY $^{181,182,183,184,185}\text{Hg}$, $^{184,185,186}\text{Pb}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 031303
^{180}Hg	2009PA33	RADIOACTIVITY $^{181,182,183,184,185}\text{Hg}$, $^{184,185,186}\text{Pb}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 031303

A=181

^{181}Hf	2009LA21	RADIOACTIVITY $^{181}\text{Hf}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced energy levels in ^{181}Ta . JOUR UKPJA 54 678
^{181}Ta	2007SHZR	NUCLEAR REACTIONS $^{181}\text{Ta}(^{18}\text{O}, x)^{180}\text{Ta}$, E=180 MeV; $^{181}\text{Ta}(^{18}\text{O}, x)^{181}\text{Ta}$, E=180 MeV; $^{181}\text{Ta}(^{18}\text{O}, x)^{182}\text{Ta}$, E=180 MeV; measured $E\gamma$, $I\gamma$, particle- γ -coin. Coulomb excitation, neutron transfer. REPT JAEA-Review 2007-046,P36,Shizuma
	2009LA20	NUCLEAR MOMENTS ^{181}Ta ; measured hfs spectra; deduced magnetic moment. JOUR UKPJA 54 337
	2009LA21	RADIOACTIVITY $^{181}\text{Hf}(\beta^-)$; measured $E\gamma$, $I\gamma$; deduced energy levels in ^{181}Ta . JOUR UKPJA 54 678
	2009TI09	NUCLEAR REACTIONS ^{59}Co , ^{197}Au , ^{181}Ta , $^{64}\text{Zn}(n, \gamma)$, ^{59}Co , ^{27}Al , ^{181}Ta , ^{115}In , ^{64}Zn , ^{65}Cu , $^{115}\text{In}(n, n')$, $\text{Pb}(p, xn)^{203}\text{Bi}$ / ^{204}Bi / ^{205}Bi / ^{206}Bi , $\text{In}(p, xn)^{113}\text{Sn}$, ^{59}Co , $^{209}\text{Bi}(p, 3n)$, $^{63}\text{Cu}(p, 2n)$, ^{209}Bi , ^{169}Tm , ^{93}Nb , $^{65}\text{Cu}(p, 4n)$, E=0.8 GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
^{181}W	2009HE15	NUCLEAR REACTIONS $\text{Ti}(d, X)^{48}\text{V}$, $^{181}\text{Ta}(d, 2n)$, (d, p) , $(d, p2n)$, $(d, 4np)$, $(d, xn2p)$, E<45 MeV; ^{179}Hf , ^{180}Hf ; measured X-ray, $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
^{181}Pt	2009PA33	RADIOACTIVITY $^{181,182,183,184,185}\text{Hg}$, $^{184,185,186}\text{Pb}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 031303
^{181}Hg	2009AN17	NUCLEAR REACTIONS $^{144}\text{Sm}(^{40}\text{Ca}, n2p)$, E=177-229 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, delayed γ , and half-lives. ^{181}Hg ; deduced levels, J, π , multipolarities, isomer. Comparison with earlier experimental data. JOUR PRVCA 80 044334
	2009PA33	RADIOACTIVITY $^{181,182,183,184,185}\text{Hg}$, $^{184,185,186}\text{Pb}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 031303

A=182

- ¹⁸²Ta 2007SHZR NUCLEAR REACTIONS ¹⁸¹Ta(¹⁸O, x)¹⁸⁰Ta, E=180 MeV; ¹⁸¹Ta(¹⁸O, x)¹⁸¹Ta, E=180 MeV; ¹⁸¹Ta(¹⁸O, x)¹⁸²Ta, E=180 MeV; measured E γ , I γ , particle- γ -coin. Coulomb excitation, neutron transfer. REPT JAEA-Review 2007-046,P36,Shizuma
- 2009HE15 NUCLEAR REACTIONS Ti(d, X)⁴⁸V, ¹⁸¹Ta(d, 2n), (d, p), (d, p2n), (d, 4np), (d, xn2p), E<45 MeV; ¹⁷⁹Hf, ¹⁸⁰Hf; measured X-ray, E γ , I γ ; deduced σ . Comparison with ALICE and EMPIRE codes. JOUR NIMBE 267 3293
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ¹⁸²Re 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- ¹⁸²Hg 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α . JOUR PRVCA 80 031303

A=183

- ¹⁸³Re 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- ¹⁸³Hg 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α . JOUR PRVCA 80 031303
- ¹⁸³Pb 2009SE13 NUCLEAR MOMENTS ^{183,185,187,189}Pb [from ²³⁸U(p, X), E=1, 4 GeV online mass separator using the in-source resonance ionization spectroscopy technique]; measured hfs spectra; deduced μ , hyperfine coupling constants, charge radii. Comparison with other data. JOUR ZAANE 41 315

A=184

- ¹⁸⁴Re 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037
- ¹⁸⁴Hg 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α . JOUR PRVCA 80 031303

A=184 (continued)

¹⁸⁴Pb 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α .
JOUR PRVCA 80 031303

A=185

¹⁸⁵Hg 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α .
JOUR PRVCA 80 031303

¹⁸⁵Pb 2009PA33 NUCLEAR REACTIONS ¹⁰⁶Pd(⁸²Kr, X)¹⁸⁵Pb, E=367 MeV;
¹⁰⁴Pd(⁸³Kr, X)¹⁸⁵Pb, E=362 MeV; measured E γ , I γ , $\alpha\gamma\gamma$ -,
(particle) γ -coin, recoil-decay tagging method. ¹⁸⁵Pb; deduced levels, J,
 π , bands, configurations. Comparison with level structure of ¹⁸¹Pt.
Level systematics of A=182-197 Pb isotopes. JOUR PRVCA 80 031303

2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α .
JOUR PRVCA 80 031303

2009SE13 NUCLEAR MOMENTS ^{183,185,187,189}Pb [from ²³⁸U(p, X), E=1, 4 GeV
online mass separator using the in-source resonance ionization
spectroscopy technique]; measured hfs spectra; deduced μ , hyperfine
coupling constants, charge radii. Comparison with other data. JOUR
ZAANE 41 315

A=186

¹⁸⁶Re 2009SZ03 NUCLEAR REACTIONS ¹⁹²Os(p, α 3n), ¹⁸⁶W(p, n), (d, 2n), Cu(p,
X)⁶⁵Zn, Al(p, X)²⁴Na, E<66.7 MeV; measured reaction products, E γ ,
I γ ; deduced σ , uncertainties. JOUR JRNCD 282 261

¹⁸⁶Os 2009PHZZ NUCLEAR REACTIONS ^{185,187}Re(³He, d), E=30 MeV; measured
E(particle), I(particle); deduced $\sigma(\theta)$; calculated $\sigma(\theta)$; deduced K π =1⁺
bands. REPT MLL 2008 Annual,P13,Phillips

¹⁸⁶Pb 2009PA33 RADIOACTIVITY ^{181,182,183,184,185}Hg, ^{184,185,186}Pb(α); measured E α .
JOUR PRVCA 80 031303

A=187

¹⁸⁷W 2009KIZY NUCLEAR REACTIONS Mo(n, γ), E=0.01-200 eV; measured In;
deduced σ ; ¹⁸⁶W(n, γ), E=thermal; ⁹⁸Mo(n, γ), E=thermal; measured
In relative to ¹⁹⁷Au(n, γ); deduced σ , resonance integral; ⁴⁵Sc(γ , n),
E=65 MeV; Ti(γ , x)⁴⁴Sc, E=65 MeV; ¹⁰³Rh(γ , 4n), E=65 MeV; Fe(γ ,
x)⁵²Mn, E=65 MeV; measured E γ , I γ ; deduced σ , isomeric transition.
Compared to other data. CONF Ulaanbaatar (Nucl Phys and Appls)
Proc.,P72,Kim

¹⁸⁷Pt 2007ZHZZ NUCLEAR REACTIONS ¹⁷³Yb(¹⁸O, 4n), E=78, 85 MeV; measured
E γ , I γ , $\gamma\gamma$ -coin.; deduced ¹⁸⁷Pt J, π , B(M1), B(E2), bands; B(M1) /
B(E2) compared to theoretical predictions. REPT JAEA-Review
2007-046,P38,Zhou

A=187 (continued)

¹⁸⁷Pb 2009SE13 NUCLEAR MOMENTS ^{183,185,187,189}Pb [from ²³⁸U(p, X), E=1, 4 GeV online mass separator using the in-source resonance ionization spectroscopy technique]; measured hfs spectra; deduced μ , hyperfine coupling constants, charge radii. Comparison with other data. JOUR ZAANE 41 315

A=188

¹⁸⁸Os 2009PHZZ NUCLEAR REACTIONS ^{185,187}Re(³He, d), E=30 MeV; measured E(particle), I(particle); deduced $\sigma(\theta)$; calculated $\sigma(\theta)$; deduced $K^\pi=1^+$ bands. REPT MLL 2008 Annual,P13,Phillips

¹⁸⁸Pt 2008ZHZX NUCLEAR REACTIONS ¹⁷⁶Yb(¹⁸O, 6n), E=88, 95 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced J, π , rotational bands, shape-coexistence; calculated energy levels using projected shell model. REPT JAEA-Review 2008-054,P34,Zhou

A=189

¹⁸⁹Pt 2009HU12 NUCLEAR REACTIONS ¹⁷⁶Yb(¹⁸O, 5n), E=88, 95 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$. ¹⁸⁹Pt; deduced levels, J, π , rotational bands, configurations. Comparisons with predictions of triaxial particle-rotor model. JOUR PRVCA 80 034303

¹⁸⁹Pb 2009SE13 NUCLEAR MOMENTS ^{183,185,187,189}Pb [from ²³⁸U(p, X), E=1, 4 GeV online mass separator using the in-source resonance ionization spectroscopy technique]; measured hfs spectra; deduced μ , hyperfine coupling constants, charge radii. Comparison with other data. JOUR ZAANE 41 315

A=190

No references found

A=191

¹⁹¹Ir 2009F007 NUCLEAR REACTIONS ^{191,193}Ir, ¹⁹⁷Au(n, n' γ), E<20 MeV; measured E γ , I γ , σ , half-lives of 11 / 2- isomers using GEANIE array. ^{191m,193m}Ir, ^{197m}Au; deduced levels, J, π , multipolarities. Comparison of measured σ with predictions from FKK-GNASH reaction model. JOUR PRVCA 80 044612

A=192

No references found

A=193

- ¹⁹³Ir 2009F007 NUCLEAR REACTIONS ^{191,193}Ir, ¹⁹⁷Au(n, n'γ), E<20 MeV; measured Eγ, Iγ, σ, half-lives of 11 / 2- isomers using GEANIE array. ^{191m,193m}Ir, ^{197m}Au; deduced levels, J, π, multipolarities. Comparison of measured σ with predictions from FKK-GNASH reaction model. JOUR PRVCA 80 044612
- ¹⁹³Hg 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured Eγ, Iγ. ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF Cheboksary,P142,Libanova

A=194

- ¹⁹⁴Ir 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured Eγ, Iγ. ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF Cheboksary,P142,Libanova

A=195

- ¹⁹⁵Hg 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured Eγ, Iγ. ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF Cheboksary,P142,Libanova

A=196

- ¹⁹⁶Au 2009LIZZ NUCLEAR REACTIONS Au, Nb, Ta(p, X), E=160, 247, 325 MeV; measured Eγ, Iγ. ⁸⁷Y, ¹⁷⁷Lu, ^{193,195}Hg, ¹⁹⁴Ir, ¹⁹⁶Au; deduced isomeric yield ratios depending on Ep. Activation Method. CONF Cheboksary,P142,Libanova
- 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α, n), ¹⁹⁷Au, ¹⁸¹Ta(α, 2n), ¹⁸¹Ta(α, 3n), ¹⁹⁷Au(α, 2pn), ⁹³Nb(α, 2p), ¹⁹⁷Au, ⁹³Nb(α, an), ²⁷Al(α, α2pn), E=18-60 MeV; measured Eα, Iα, Eγ, Iγ; deduced σ. Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037

A=197

- ¹⁹⁷Au 2009F007 NUCLEAR REACTIONS ^{191,193}Ir, ¹⁹⁷Au(n, n'γ), E<20 MeV; measured Eγ, Iγ, σ, half-lives of 11 / 2- isomers using GEANIE array. ^{191m,193m}Ir, ^{197m}Au; deduced levels, J, π, multipolarities. Comparison of measured σ with predictions from FKK-GNASH reaction model. JOUR PRVCA 80 044612

A=197 (continued)

¹⁹⁷Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov

A=198

¹⁹⁸Au 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037

2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

¹⁹⁸Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov

A=199

¹⁹⁹Au 2009PE19 NUCLEAR REACTIONS ²⁰⁹Bi(⁶Li, xn)²¹⁰Rn / ²¹¹Rn / ²¹²Rn, ²⁰⁹Bi(⁶Li, X)²⁰⁸Po / ²¹⁰Po, Pt(⁶Li, xn)²⁰⁰Tl, ¹⁹⁸Pt(⁶Li, X)¹⁹⁹Au, ¹⁹⁷Au(⁶He, xn), ²⁰⁶Pb(⁶He, 2n)²¹⁰Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617

¹⁹⁹Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov

2009LE29 NUCLEAR REACTIONS ¹⁹⁷Au(⁸He, xn), (⁶He, xn), (α , xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E=2.34, 2.51, 3.68 MeV / nucleon; measured x-rays, E γ , I γ ; deduced σ for fusion, neutron transfer and evaporation residue. JOUR PRLTA 103 232701

2009SH34 NUCLEAR REACTIONS ¹⁹⁸Pt(⁶Li, xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E(cm)<35 MeV; measured x-rays, E γ , I γ ; deduced fusion and evaporation residue excitation functions, average angular momentum and logarithmic derivatives of the fusion σ , internuclear potentials. JOUR PRLTA 103 232702

2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPFA 87 1037

A=200

- ²⁰⁰Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov
- 2009LE29 NUCLEAR REACTIONS ¹⁹⁷Au(⁸He, xn), (⁶He, xn), (α , xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E=2.34, 2.51, 3.68 MeV / nucleon; measured x-rays, E γ , I γ ; deduced σ for fusion, neutron transfer and evaporation residue. JOUR PRLTA 103 232701
- 2009PE19 NUCLEAR REACTIONS ²⁰⁹Bi(⁶Li, xn)²¹⁰Rn / ²¹¹Rn / ²¹²Rn, ²⁰⁹Bi(⁶Li, X)²⁰⁸Po / ²¹⁰Po, Pt(⁶Li, xn)²⁰⁰Tl, ¹⁹⁸Pt(⁶Li, X)¹⁹⁹Au, ¹⁹⁷Au(⁶He, xn), ²⁰⁶Pb(⁶He, 2n)²¹⁰Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617
- 2009SH34 NUCLEAR REACTIONS ¹⁹⁸Pt(⁶Li, xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E(cm)<35 MeV; measured x-rays, E γ , I γ ; deduced fusion and evaporation residue excitation functions, average angular momentum and logarithmic derivatives of the fusion σ , internuclear potentials. JOUR PRLTA 103 232702
- 2009SI28 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁸¹Ta, ⁹³Nb(α , n), ¹⁹⁷Au, ¹⁸¹Ta(α , 2n), ¹⁸¹Ta(α , 3n), ¹⁹⁷Au(α , 2pn), ⁹³Nb(α , 2p), ¹⁹⁷Au, ⁹³Nb(α , an), ²⁷Al(α , α 2pn), E=18-60 MeV; measured E α , I α , E γ , I γ ; deduced σ . Comparison with STAPRE, ALICE-91 and COMPLET codes. JOUR CJPHA 87 1037

A=201

- ²⁰¹Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov
- 2009LE29 NUCLEAR REACTIONS ¹⁹⁷Au(⁸He, xn), (⁶He, xn), (α , xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E=2.34, 2.51, 3.68 MeV / nucleon; measured x-rays, E γ , I γ ; deduced σ for fusion, neutron transfer and evaporation residue. JOUR PRLTA 103 232701
- 2009SH34 NUCLEAR REACTIONS ¹⁹⁸Pt(⁶Li, xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E(cm)<35 MeV; measured x-rays, E γ , I γ ; deduced fusion and evaporation residue excitation functions, average angular momentum and logarithmic derivatives of the fusion σ , internuclear potentials. JOUR PRLTA 103 232702

A=202

- ²⁰²Tl 2009ERZZ NUCLEAR REACTIONS ^{203,205}Tl(γ , n), (γ , 2n), (γ , 3n), (γ , 4n), (γ , 5n), (γ , 6n), ²⁰⁵Tl(γ , np), E < 67.7 MeV; measured E γ , I γ of residuals, σ integrated. Activation technique. CONF Cheboksary,P135,Ermakov
- 2009LE29 NUCLEAR REACTIONS ¹⁹⁷Au(⁸He, xn), (⁶He, xn), (α , xn)¹⁹⁹Tl / ²⁰⁰Tl / ²⁰¹Tl / ²⁰²Tl, E=2.34, 2.51, 3.68 MeV / nucleon; measured x-rays, E γ , I γ ; deduced σ for fusion, neutron transfer and evaporation residue. JOUR PRLTA 103 232701

A=202 (continued)

2009SH34 NUCLEAR REACTIONS $^{198}\text{Pt}(^6\text{Li}, \text{xn})^{199}\text{Tl} / ^{200}\text{Tl} / ^{201}\text{Tl} / ^{202}\text{Tl}$, $E(\text{cm}) < 35$ MeV; measured x-rays, $E\gamma$, $I\gamma$; deduced fusion and evaporation residue excitation functions, average angular momentum and logarithmic derivatives of the fusion σ , internuclear potentials. JOUR PRLTA 103 232702

A=203

^{203}Hg 2009ERZZ NUCLEAR REACTIONS $^{203,205}\text{Tl}(\gamma, \text{n}), (\gamma, 2\text{n}), (\gamma, 3\text{n}), (\gamma, 4\text{n}), (\gamma, 5\text{n}), (\gamma, 6\text{n}), ^{205}\text{Tl}(\gamma, \text{np})$, $E < 67.7$ MeV; measured $E\gamma$, $I\gamma$ of residuals, σ integrated. Activation technique. CONF Cheboksary, P135, Ermakov

^{203}Tl 2009ERZZ NUCLEAR REACTIONS $^{203,205}\text{Tl}(\gamma, \text{n}), (\gamma, 2\text{n}), (\gamma, 3\text{n}), (\gamma, 4\text{n}), (\gamma, 5\text{n}), (\gamma, 6\text{n}), ^{205}\text{Tl}(\gamma, \text{np})$, $E < 67.7$ MeV; measured $E\gamma$, $I\gamma$ of residuals, σ integrated. Activation technique. CONF Cheboksary, P135, Ermakov

^{203}Bi 2009TI09 NUCLEAR REACTIONS $^{59}\text{Co}, ^{197}\text{Au}, ^{181}\text{Ta}, ^{64}\text{Zn}(\text{n}, \gamma), ^{59}\text{Co}, ^{27}\text{Al}, ^{181}\text{Ta}, ^{115}\text{In}, ^{64}\text{Zn}, ^{65}\text{Cu}, ^{115}\text{In}(\text{n}, \text{n}'), \text{Pb}(\text{p}, \text{xn})^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi}, \text{In}(\text{p}, \text{xn})^{113}\text{Sn}, ^{59}\text{Co}, ^{209}\text{Bi}(\text{p}, 3\text{n}), ^{63}\text{Cu}(\text{p}, 2\text{n}), ^{209}\text{Bi}, ^{169}\text{Tm}, ^{93}\text{Nb}, ^{65}\text{Cu}(\text{p}, 4\text{n})$, $E=0.8$ GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=204

^{204}Tl 2009ERZZ NUCLEAR REACTIONS $^{203,205}\text{Tl}(\gamma, \text{n}), (\gamma, 2\text{n}), (\gamma, 3\text{n}), (\gamma, 4\text{n}), (\gamma, 5\text{n}), (\gamma, 6\text{n}), ^{205}\text{Tl}(\gamma, \text{np})$, $E < 67.7$ MeV; measured $E\gamma$, $I\gamma$ of residuals, σ integrated. Activation technique. CONF Cheboksary, P135, Ermakov

^{204}Bi 2009TI09 NUCLEAR REACTIONS $^{59}\text{Co}, ^{197}\text{Au}, ^{181}\text{Ta}, ^{64}\text{Zn}(\text{n}, \gamma), ^{59}\text{Co}, ^{27}\text{Al}, ^{181}\text{Ta}, ^{115}\text{In}, ^{64}\text{Zn}, ^{65}\text{Cu}, ^{115}\text{In}(\text{n}, \text{n}'), \text{Pb}(\text{p}, \text{xn})^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi}, \text{In}(\text{p}, \text{xn})^{113}\text{Sn}, ^{59}\text{Co}, ^{209}\text{Bi}(\text{p}, 3\text{n}), ^{63}\text{Cu}(\text{p}, 2\text{n}), ^{209}\text{Bi}, ^{169}\text{Tm}, ^{93}\text{Nb}, ^{65}\text{Cu}(\text{p}, 4\text{n})$, $E=0.8$ GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=205

^{205}Bi 2009NA36 NUCLEAR REACTIONS $^{209}\text{Bi}(\gamma, \text{F})$, $E=50, 65$ MeV bremsstrahlung; measured fission yields; $^{209}\text{Bi}(\gamma, 3\text{n}), (\gamma, 4\text{n})$, $E=50, 65$ MeV bremsstrahlung; measured $E\gamma$, $I\gamma$, σ . Comparison with other data and TALYS code. JOUR ZAANE 41 323

2009TI09 NUCLEAR REACTIONS $^{59}\text{Co}, ^{197}\text{Au}, ^{181}\text{Ta}, ^{64}\text{Zn}(\text{n}, \gamma), ^{59}\text{Co}, ^{27}\text{Al}, ^{181}\text{Ta}, ^{115}\text{In}, ^{64}\text{Zn}, ^{65}\text{Cu}, ^{115}\text{In}(\text{n}, \text{n}'), \text{Pb}(\text{p}, \text{xn})^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi}, \text{In}(\text{p}, \text{xn})^{113}\text{Sn}, ^{59}\text{Co}, ^{209}\text{Bi}(\text{p}, 3\text{n}), ^{63}\text{Cu}(\text{p}, 2\text{n}), ^{209}\text{Bi}, ^{169}\text{Tm}, ^{93}\text{Nb}, ^{65}\text{Cu}(\text{p}, 4\text{n})$, $E=0.8$ GeV; measured $E\gamma$, $I\gamma$; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48

A=206

- ²⁰⁶Pb 2009PI14 NUCLEAR REACTIONS ²⁰⁸Pb(polarized γ , γ'), E=5.5, 5.6 MeV; measured E γ , I γ using the azimuthal nuclear resonance fluorescence intensity asymmetry technique. ^{206,207,208}Pb; deduced levels, J, π . JOUR PYLBB 681 134
- ²⁰⁶Bi 2009NA36 NUCLEAR REACTIONS ²⁰⁹Bi(γ , F), E=50, 65 MeV bremsstrahlung; measured fission yields; ²⁰⁹Bi(γ , 3n), (γ , 4n), E=50, 65 MeV bremsstrahlung; measured E γ , I γ , σ . Comparison with other data and TALYS code. JOUR ZAANE 41 323
- 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ²⁰⁶Po 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ²⁰⁶At 2009DR08 NUCLEAR REACTIONS ¹⁹⁷Au(¹⁶O, 5n), (¹⁶O, 3n α), E=95 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(t)$, conversion electrons, T_{1/2} using the CAESAR array. ²⁰⁸Fr; deduced levels, J, π , T_{1/2}, B(E1), multipolarities, conversion coefficients, configurations. ²⁰⁶At; deduced levels, J, π , T_{1/2}, B(E1), configurations. JOUR ZAANE 40 127

A=207

- ²⁰⁷Pb 2009PI14 NUCLEAR REACTIONS ²⁰⁸Pb(polarized γ , γ'), E=5.5, 5.6 MeV; measured E γ , I γ using the azimuthal nuclear resonance fluorescence intensity asymmetry technique. ^{206,207,208}Pb; deduced levels, J, π . JOUR PYLBB 681 134
- ²⁰⁷Po 2009TI09 NUCLEAR REACTIONS ⁵⁹Co, ¹⁹⁷Au, ¹⁸¹Ta, ⁶⁴Zn(n, γ), ⁵⁹Co, ²⁷Al, ¹⁸¹Ta, ¹¹⁵In, ⁶⁴Zn, ⁶⁵Cu, ¹¹⁵In(n, n'), Pb(p, xn)²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi, In(p, xn)¹¹³Sn, ⁵⁹Co, ²⁰⁹Bi(p, 3n), ⁶³Cu(p, 2n), ²⁰⁹Bi, ¹⁶⁹Tm, ⁹³Nb, ⁶⁵Cu(p, 4n), E=0.8 GeV; measured E γ , I γ ; deduced reaction rates, proton, neutron spectra, neutron flux. Comparison with LAHET code results. JOUR AENGA 107 48
- ²⁰⁷Ra 2009LAZV RADIOACTIVITY ^{211,213,217,218}Th(α); measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=208

- ²⁰⁸Pb 2007MIZM NUCLEAR REACTIONS ²⁰⁸Pb, ²⁰⁹Bi(⁷⁶Ge, ⁷⁶Ge'), E not given; measured E(particle), I(particle) at backward angles; deduced quasielastic σ . REPT JAEA-Review 2007-046,P53,Mitsuoko
- 2008TOZW NUCLEAR REACTIONS ²⁰⁸Pb(¹⁰⁰Ru, ¹⁰⁰Ru'), E=440 MeV; measured Coulomb excitation, E γ , I γ . REPT JAEA-Review 2008-054,P29,Toh
- 2009GI06 NUCLEAR REACTIONS ²⁰⁸Pb(²⁶Ne, ²⁶Ne'), E=58 MeV / nucleon; measured reaction fragments, E γ , I γ ; deduced $\sigma(\theta)$, B(E1), B(E2). Secondary beam from ⁴⁰Ar fragmentation. JOUR IMPEE 18 2050
- 2009MAZW NUCLEAR REACTIONS ²⁰⁸Pb(¹⁷F, ¹⁷F), E=85 MeV; measured E(particle), I(particle); deduced σ . Given comparison of experimental data of elastic scattering σ for nuclei from ⁴He to ¹⁹F on ²⁰⁸Pb and ²⁰⁹Bi in reduced variables. CONF Tokai (Perspective in Nuc Phys), Proc.P21,Mazzocco
- 2009MIZZ NUCLEAR REACTIONS ²⁰⁸Pb(⁴⁸Ti, ⁴⁸Ti'), E(cm) \approx 175-205 MeV;²⁰⁸Pb(⁵⁴Cr, ⁵⁴Cr'), E(cm) \approx 188-230 MeV;²⁰⁸Pb(⁵⁶Fe, ⁵⁶Fe'), E(cm) \approx 215-240 MeV;²⁰⁸Pb(⁶⁴Ni, ⁶⁴Ni'), E(cm) \approx 220-255 MeV;²⁰⁸Pb(⁷⁰Zn, ⁷⁰Zn'), E(cm) \approx 235-265 MeV;²⁰⁸Pb(⁸⁶Kr, ⁸⁶Kr'), E not given; measured yields, fragment spectra; deduced fission barrier heights; calculated d σ , barrier distributions using CC (code CCFULL-SC) with quadrupole and octupole phonon excitations and different potentials. CONF Tokai (Perspective in Nuc Phys), Proc.P15,Mitsuoka
- 2009PI14 NUCLEAR REACTIONS ²⁰⁸Pb(polarized γ , γ'), E=5.5, 5.6 MeV; measured E γ , I γ using the azimuthal nuclear resonance fluorescence intensity asymmetry technique. ^{206,207,208}Pb; deduced levels, J, π . JOUR PYLBB 681 134
- ²⁰⁸Po 2009PE19 NUCLEAR REACTIONS ²⁰⁹Bi(⁶Li, xn)²¹⁰Rn / ²¹¹Rn / ²¹²Rn, ²⁰⁹Bi(⁶Li, X)²⁰⁸Po / ²¹⁰Po, Pt(⁶Li, xn)²⁰⁰Tl, ¹⁹⁸Pt(⁶Li, X)¹⁹⁹Au, ¹⁹⁷Au(⁶He, xn), ²⁰⁶Pb(⁶He, 2n)²¹⁰Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617
- ²⁰⁸Fr 2009DR08 NUCLEAR REACTIONS ¹⁹⁷Au(¹⁶O, 5n), (¹⁶O, 3n α), E=95 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, $\gamma(t)$, conversion electrons, T_{1/2} using the CAESAR array. ²⁰⁸Fr; deduced levels, J, π , T_{1/2}, B(E1), multipolarities, conversion coefficients, configurations. ²⁰⁶At; deduced levels, J, π , T_{1/2}, B(E1), configurations. JOUR ZAANE 40 127

A=209

- ²⁰⁹Bi 2007MIZM NUCLEAR REACTIONS ²⁰⁸Pb, ²⁰⁹Bi(⁷⁶Ge, ⁷⁶Ge'), E not given; measured E(particle), I(particle) at backward angles; deduced quasielastic σ . REPT JAEA-Review 2007-046,P53,Mitsuoko
- ²⁰⁹Ra 2009LAZV RADIOACTIVITY ^{211,213,217,218}Th(α); measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=210

²¹⁰ Pb	2009REZZ	RADIOACTIVITY ⁴⁰ K(β^-), ¹³⁷ Cs(β^-), ²¹⁰ Pb(β^-), ²²⁶ Ra(α), ²³² Th(α), ²³⁸ U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
²¹⁰ Bi	2009REZZ	RADIOACTIVITY ⁴⁰ K(β^-), ¹³⁷ Cs(β^-), ²¹⁰ Pb(β^-), ²²⁶ Ra(α), ²³² Th(α), ²³⁸ U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
²¹⁰ Po	2009PE19	NUCLEAR REACTIONS ²⁰⁹ Bi(⁶ Li, xn) ²¹⁰ Rn / ²¹¹ Rn / ²¹² Rn, ²⁰⁹ Bi(⁶ Li, X) ²⁰⁸ Po / ²¹⁰ Po, Pt(⁶ Li, xn) ²⁰⁰ Tl, ¹⁹⁸ Pt(⁶ Li, X) ¹⁹⁹ Au, ¹⁹⁷ Au(⁶ He, xn), ²⁰⁶ Pb(⁶ He, 2n) ²¹⁰ Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617
²¹⁰ Rn	2009PE19	NUCLEAR REACTIONS ²⁰⁹ Bi(⁶ Li, xn) ²¹⁰ Rn / ²¹¹ Rn / ²¹² Rn, ²⁰⁹ Bi(⁶ Li, X) ²⁰⁸ Po / ²¹⁰ Po, Pt(⁶ Li, xn) ²⁰⁰ Tl, ¹⁹⁸ Pt(⁶ Li, X) ¹⁹⁹ Au, ¹⁹⁷ Au(⁶ He, xn), ²⁰⁶ Pb(⁶ He, 2n) ²¹⁰ Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617

A=211

²¹¹ At	2009AG10	NUCLEAR REACTIONS ²⁰⁸ Pb(⁸ Li, 4n), (⁸ Li, 5n), E(cm)=32.1, 33.0, 33.9, 34.8, 35.7, 36.6, 37.5 MeV; ²¹² At, ²¹¹ At; measured α spectra, fusion-evaporation σ , and excitation functions. Pulsed beam. Comparison with barrier-potential model (BPM) calculations. JOUR PRVCA 80 044605
²¹¹ Rn	2009PE19	NUCLEAR REACTIONS ²⁰⁹ Bi(⁶ Li, xn) ²¹⁰ Rn / ²¹¹ Rn / ²¹² Rn, ²⁰⁹ Bi(⁶ Li, X) ²⁰⁸ Po / ²¹⁰ Po, Pt(⁶ Li, xn) ²⁰⁰ Tl, ¹⁹⁸ Pt(⁶ Li, X) ¹⁹⁹ Au, ¹⁹⁷ Au(⁶ He, xn), ²⁰⁶ Pb(⁶ He, 2n) ²¹⁰ Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617
²¹¹ Th	2009LAZV	RADIOACTIVITY ^{211,213,217,218} Th(α); measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=212

²¹² At	2009AG10	NUCLEAR REACTIONS ²⁰⁸ Pb(⁸ Li, 4n), (⁸ Li, 5n), E(cm)=32.1, 33.0, 33.9, 34.8, 35.7, 36.6, 37.5 MeV; ²¹² At, ²¹¹ At; measured α spectra, fusion-evaporation σ , and excitation functions. Pulsed beam. Comparison with barrier-potential model (BPM) calculations. JOUR PRVCA 80 044605
²¹² Rn	2009PE19	NUCLEAR REACTIONS ²⁰⁹ Bi(⁶ Li, xn) ²¹⁰ Rn / ²¹¹ Rn / ²¹² Rn, ²⁰⁹ Bi(⁶ Li, X) ²⁰⁸ Po / ²¹⁰ Po, Pt(⁶ Li, xn) ²⁰⁰ Tl, ¹⁹⁸ Pt(⁶ Li, X) ¹⁹⁹ Au, ¹⁹⁷ Au(⁶ He, xn), ²⁰⁶ Pb(⁶ He, 2n) ²¹⁰ Po, E=55 MeV; measured reaction products, E γ , I γ ; deduced σ . JOUR PANUE 72 1617

A=213

- ^{213}Ra 2009LAZV RADIOACTIVITY $^{211,213,217,218}\text{Th}(\alpha)$; measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner
- ^{213}Th 2009LAZV RADIOACTIVITY $^{211,213,217,218}\text{Th}(\alpha)$; measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=214

- ^{214}Ra 2009LAZV RADIOACTIVITY $^{211,213,217,218}\text{Th}(\alpha)$; measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=215

No references found

A=216

No references found

A=217

- ^{217}Th 2009LAZV RADIOACTIVITY $^{211,213,217,218}\text{Th}(\alpha)$; measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=218

- ^{218}Th 2009LAZV RADIOACTIVITY $^{211,213,217,218}\text{Th}(\alpha)$; measured yields using time-of-flight spectrometer. Search for long-lived K-isomeric transitions; only upper limit given. REPT MLL 2008 Annual,P27,Lachner

A=219

No references found

A=220

No references found

A=221

No references found

A=222

²²²Rn 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes

A=223

No references found

A=224

²²⁴Th 2009LI45 NUCLEAR REACTIONS ⁵⁸Ni, ²⁰⁸Pb(¹⁷F, p), E=10 MeV / nucleon; measured Ep, Ip, (fragment)p-coin, $\sigma(\theta)$ using silicon strip detectors. Comparison with first-order perturbation and dynamical calculations and effect of dynamic polarization discussed. JOUR PYLBB 681 22

A=225

No references found

A=226

²²⁶Ra 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes

A=227

No references found

A=228

- ²²⁸Ra 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ; deduced soil natural activities. CONF Brazil (Nuclear Physics 2008) Proc. P153,Silveira

A=229

- ²²⁹Th 2009KI14 RADIOACTIVITY ²³³U(α); measured E α , I α . ^{229m}Th; deduced half-life. JOUR PRVCA 80 034315

A=230

No references found

A=231

- ²³¹Th 2009G028 NUCLEAR REACTIONS ²³⁰Th(n, f), E=220 keV-25 MeV; ²³¹Th(n, f), E=360 keV-10 MeV; measured fission fragments, σ using surrogate ratio method. Comparison with previous measurements and evaluations. ²³²Th, ²³⁶U(³He, ³He'), (³He, α), E=42 MeV; measured particle spectra, and relative fission decay probability in surrogate reactions. JOUR PRVCA 80 044610

A=232

- ²³²Th 2009G028 NUCLEAR REACTIONS ²³⁰Th(n, f), E=220 keV-25 MeV; ²³¹Th(n, f), E=360 keV-10 MeV; measured fission fragments, σ using surrogate ratio method. Comparison with previous measurements and evaluations. ²³²Th, ²³⁶U(³He, ³He'), (³He, α), E=42 MeV; measured particle spectra, and relative fission decay probability in surrogate reactions. JOUR PRVCA 80 044610
- 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α), ²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ; deduced soil natural activities. CONF Brazil (Nuclear Physics 2008) Proc. P153,Silveira

A=233

- ²³³U 2009KI14 RADIOACTIVITY ²³³U(α); measured E α , I α . ^{229m}Th; deduced half-life. JOUR PRVCA 80 034315

A=234

- ²³⁴Th 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α),
²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine
sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ;
deduced soil natural activities. CONF Brazil (Nuclear Physics 2008)
Proc. P153,Silveira

A=235

- ²³⁵U 2009G028 NUCLEAR REACTIONS ²³⁰Th(n, f), E=220 keV-25 MeV; ²³¹Th(n,
f), E=360 keV-10 MeV; measured fission fragments, σ using surrogate
ratio method. Comparison with previous measurements and
evaluations. ²³²Th, ²³⁶U(³He, ³He'), (³He, α), E=42 MeV; measured
particle spectra, and relative fission decay probability in surrogate
reactions. JOUR PRVCA 80 044610

A=236

- ²³⁶Th 2007ISZY NUCLEAR REACTIONS ²³⁸U, ²⁴⁴Pu(¹⁸O, ²⁰Ne), E not given;
measured E γ , I γ , E(particle); deduced J, π , rotational bands of ²³⁶Th
and ²⁴²U. REPT JAEA-Review 2007-046,P40,Ishii
- ²³⁶U 2009G028 NUCLEAR REACTIONS ²³⁰Th(n, f), E=220 keV-25 MeV; ²³¹Th(n,
f), E=360 keV-10 MeV; measured fission fragments, σ using surrogate
ratio method. Comparison with previous measurements and
evaluations. ²³²Th, ²³⁶U(³He, ³He'), (³He, α), E=42 MeV; measured
particle spectra, and relative fission decay probability in surrogate
reactions. JOUR PRVCA 80 044610

A=237

No references found

A=238

- ²³⁸U 2009REZZ RADIOACTIVITY ⁴⁰K(β^-), ¹³⁷Cs(β^-), ²¹⁰Pb(β^-), ²²⁶Ra(α),
²³²Th(α), ²³⁸U(α); measured E γ , I γ ; deduced activities in marine
sediments. CONF Brazil (Nuclear Physics 2008) Proc. P156,Reyes
- 2009R021 NUCLEAR REACTIONS ²³⁸U(n, n'), E=5-120 eV; measured En, In;
deduced 36.68-eV resonance, scattering probability, σ . Comparison
with ENDF / B-VII.0 library. JOUR KPSJA 55 1389
- 2009SIZZ RADIOACTIVITY ⁴⁰K(β^-), ²³⁸U(α), ²³²Th(α); measured E γ , I γ ;
deduced soil natural activities. CONF Brazil (Nuclear Physics 2008)
Proc. P153,Silveira

A=239

No references found

A=240

²⁴⁰U 2009LAZW RADIOACTIVITY ²⁴⁴Pu(α); measured E α from bastnaesit using time-of-flight spectrometer. Search for possible trace of Pu as primordial actinide; no event attributable to ²⁴⁴Pu found. REPT MLL 2008 Annual,P26,Lachner

A=241

No references found

A=242

²⁴²U 2007ISZY NUCLEAR REACTIONS ²³⁸U, ²⁴⁴Pu(¹⁸O, ²⁰Ne), E not given; measured E γ , I γ , E(particle); deduced J, π , rotational bands of ²³⁶Th and ²⁴²U. REPT JAEA-Review 2007-046,P40,Ishii

A=243

No references found

A=244

²⁴⁴Pu 2009LAZW RADIOACTIVITY ²⁴⁴Pu(α); measured E α from bastnaesit using time-of-flight spectrometer. Search for possible trace of Pu as primordial actinide; no event attributable to ²⁴⁴Pu found. REPT MLL 2008 Annual,P26,Lachner

A=245

²⁴⁵Es 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured E α , I α , T_{1/2}; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=246

²⁴⁶Pu 2008MAZO NUCLEAR REACTIONS ²⁴⁴Pu(¹⁸O, ¹⁶O), E=162 MeV; measured E(particle), E γ , I γ , particle- γ -coin.; deduced J, π , rotational band in ²⁴⁶Pu. Compared experimental and calculated E(2⁺) energies of even-even actinide nuclei. REPT JAEA-Review 2008-054,P36,Makii

A=247

No references found

A=248

No references found

A=249

²⁴⁹Cm 2008ISZY NUCLEAR REACTIONS ²⁴⁸Cm(¹⁶O, x)²⁴⁹Cm, E=162 MeV; ²⁴⁸Cm(¹⁸O, x)²⁴⁹Cm, E=162 MeV; ²⁴⁸Cm(¹³C, x)²⁴⁹Cm, E=120 MeV; measured E(particle), E γ , I $\gamma\gamma\gamma$ -coin.; deduced J, π , (rotational) bands. REPT JAEA-Review 2008-054,P38,Ishii

²⁴⁹Fm 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured E α , I α , T_{1/2}; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

²⁴⁹Md 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured E α , I α , T_{1/2}; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=250

No references found

A=251

²⁵¹Fm 2007ASZU RADIOACTIVITY ²⁵⁵No(α)[from ²⁴⁸Cm(¹²C, 5n), E=77 MeV]; measured E α , I α . Using previous measurements of $\alpha\gamma$ -coin., deduced J, π of ²⁵¹Fm. REPT JAEA-Review 2007-046,P42,Asai

A=252

- ²⁵²Cf 2009HW03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ^{91,92,93}Rb, ^{155,156}Pm; deduced levels, J, π , bands. Comparison with level systematics of ⁸⁹Rb, ⁹⁰Kr and ⁹²Kr. JOUR PRVCA 80 037304
- 2009LI42 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁷I, ¹³⁹Cs; deduced levels, J, π , bands, multipolarities and mixing ratios. ^{108,109,110}Tc, ^{111,113}Rh; measured E γ , $\gamma\gamma$ -coin. Comparison with shell-model calculations. A=133-141(odd), Z=55; N=84, Sb, I, Cs, La; A=132-140(even), Z=52, 54, 56; systematics of low-lying states. JOUR PRVCA 80 044314
- 2009LU18 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, B(E1) / B(E2), chiral doubling. Comparison with other chiral doubling candidates. JOUR IMPEE 18 1697
- 2009UR04 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin using Gammasphere array. ¹⁵⁹Sm; deduced levels, J, π and half-lives. Systematics of 11 / 2[505] band in N=87-97 Sm, Gd and Dy nuclei. Comparison with quasiparticle rotor model calculations. JOUR PRVCA 80 037301
- 2009ZH24 RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced high-spin, even-parity bands, branching ratios, odd-even spin energy band staggering, doubling of levels in ¹¹⁰Ru, deformation parameters, triaxiality. Comparison with TRS calculations. JOUR IMPEE 18 1717

A=253

- ²⁵³No 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured E α , I α , T_{1/2}; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145
- ²⁵³Lr 2009HE20 NUCLEAR REACTIONS ²⁰⁷Pb(⁵⁴Cr, n), (⁵⁴Cr, 2n), ²⁰⁸Pb(⁵⁸Fe, n), (⁵⁴Cr, 2n), ²⁰⁹Bi(⁵⁴Cr, n), (⁵⁰Ti, n), (⁵⁰Ti, 2n), (⁴⁸Ca, 4n), E not given; measured E α , I α , E γ , (fragment) α -coin, $\alpha\psi$ -coin, σ ; deduced decay chain properties, T_{1/2}, levels, J, π . Comparison with other data and calculations. JOUR ZAANE 41 145
- 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured E α , I α , T_{1/2}; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=254

- ²⁵⁴Es 2009GUZZ NUCLEAR MOMENTS ²⁵⁴Es; measured $E\alpha(\theta)$, $E\gamma(\theta)$ for decay from oriented sources. ²⁵⁴Es; deduced magnetic moment. Low temperature nuclear orientation and iron hyperfine fields. CONF
Cheboksary,P99,Gurevich
- ²⁵⁴Lr 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=255

- ²⁵⁵No 2007ASZU RADIOACTIVITY ²⁵⁵No(α)[from ²⁴⁸Cm(¹²C, 5n), E=77 MeV]; measured $E\alpha$, $I\alpha$. Using previous measurements of $\alpha\gamma$ -coin., deduced J, π of ²⁵¹Fm. REPT JAEA-Review 2007-046,P42,Asai
- ²⁵⁵Lr 2009JE02 NUCLEAR REACTIONS ²⁰⁹Bi(⁴⁸Ca, 2n), E=222 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$, half-lives. ²⁵⁵Lr; deduced levels, J, π , bands, high-K 3qp isomers and configurations. Comparison with microscopic cranked relativistic Hartree-Bogoliubov (CRHB) calculations. JOUR PRVCA 80 034324
- ²⁵⁵Rf 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=256

- ²⁵⁶Rf 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=257

- ²⁵⁷Rf 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145
- ²⁵⁷Db 2009HE20 NUCLEAR REACTIONS ²⁰⁷Pb(⁵⁴Cr, n), (⁵⁴Cr, 2n), ²⁰⁸Pb(⁵⁸Fe, n), (⁵⁴Cr, 2n), ²⁰⁹Bi(⁵⁴Cr, n), (⁵⁰Ti, n), (⁵⁰Ti, 2n), (⁴⁸Ca, 4n), E not given; measured $E\alpha$, $I\alpha$, $E\gamma$, (fragment) α -coin, $\alpha\psi$ -coin, σ ; deduced decay chain properties, $T_{1/2}$, levels, J, π . Comparison with other data and calculations. JOUR ZAANE 41 145
- 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=258

- ²⁵⁸Fm 2007NIZT NUCLEAR REACTIONS ²⁴⁴Pu(¹⁸O, α), E=103 MeV; measured Eα, Iα, fragment-α-coin. Measurements of α at 20 and 160 deg. REPT JAEA-Review 2007-046,P56,Nishinaka
- ²⁵⁸Rf 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured Eα, Iα, T_{1/2}; deduced levels, J, π. Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145
- ²⁵⁸Db 2009HE20 NUCLEAR REACTIONS ²⁰⁷Pb(⁵⁴Cr, n), (⁵⁴Cr, 2n), ²⁰⁸Pb(⁵⁸Fe, n), (⁵⁴Cr, 2n), ²⁰⁹Bi(⁵⁴Cr, n), (⁵⁰Ti, n), (⁵⁰Ti, 2n), (⁴⁸Ca, 4n), E not given; measured Eα, Iα, Eγ, (fragment)α-coin, αψ-coin, σ; deduced decay chain properties, T_{1/2}, levels, J, π. Comparison with other data and calculations. JOUR ZAANE 41 145
- 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured Eα, Iα, T_{1/2}; deduced levels, J, π. Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=259

- ²⁵⁹No 2008ASZY NUCLEAR REACTIONS ²⁴⁸Cm(¹⁸O, 3nα), E=94 MeV; measured Eγ, Iγ, αγ-coin., x-rays; deduced J, π. REPT JAEA-Review 2008-054,P40,Asai
- ²⁵⁹Db 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured Eα, Iα, T_{1/2}; deduced levels, J, π. Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145
- ²⁵⁹Sg 2009HE20 NUCLEAR REACTIONS ²⁰⁷Pb(⁵⁴Cr, n), (⁵⁴Cr, 2n), ²⁰⁸Pb(⁵⁸Fe, n), (⁵⁴Cr, 2n), ²⁰⁹Bi(⁵⁴Cr, n), (⁵⁰Ti, n), (⁵⁰Ti, 2n), (⁴⁸Ca, 4n), E not given; measured Eα, Iα, Eγ, (fragment)α-coin, αψ-coin, σ; deduced decay chain properties, T_{1/2}, levels, J, π. Comparison with other data and calculations. JOUR ZAANE 41 145
- 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured Eα, Iα, T_{1/2}; deduced levels, J, π. Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=260

- ²⁶⁰Db 2009HE20 RADIOACTIVITY ²⁴⁹Md, ²⁵³Lr, ^{257,258}Db, ^{259,260}Sg, ²⁶²Bh, ²⁶⁵Hs(α), (SF), (EC); measured Eα, Iα, T_{1/2}; deduced levels, J, π. Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145
- ²⁶⁰Sg 2009HE20 NUCLEAR REACTIONS ²⁰⁷Pb(⁵⁴Cr, n), (⁵⁴Cr, 2n), ²⁰⁸Pb(⁵⁸Fe, n), (⁵⁴Cr, 2n), ²⁰⁹Bi(⁵⁴Cr, n), (⁵⁰Ti, n), (⁵⁰Ti, 2n), (⁴⁸Ca, 4n), E not given; measured Eα, Iα, Eγ, (fragment)α-coin, αψ-coin, σ; deduced decay chain properties, T_{1/2}, levels, J, π. Comparison with other data and calculations. JOUR ZAANE 41 145

A=260 (continued)

2009HE20 RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=261

^{261}Sg 2009HE20 RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=262

^{262}Sg 2009HE20 RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

^{262}Bh 2009HE20 NUCLEAR REACTIONS $^{207}\text{Pb}({}^{54}\text{Cr}, n)$, $({}^{54}\text{Cr}, 2n)$, $^{208}\text{Pb}({}^{58}\text{Fe}, n)$, $({}^{54}\text{Cr}, 2n)$, $^{209}\text{Bi}({}^{54}\text{Cr}, n)$, $({}^{50}\text{Ti}, n)$, $({}^{50}\text{Ti}, 2n)$, $({}^{48}\text{Ca}, 4n)$, E not given; measured $E\alpha$, $I\alpha$, $E\gamma$, (fragment) α -coin, $\alpha\psi$ -coin, σ ; deduced decay chain properties, $T_{1/2}$, levels, J, π . Comparison with other data and calculations. JOUR ZAANE 41 145

2009HE20 RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=263

No references found

A=264

No references found

A=265

^{265}Bh 2009HE20 RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145

A=265 (continued)

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|-------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ^{265}Hs | 2009HE20 | NUCLEAR REACTIONS $^{207}\text{Pb}(^{54}\text{Cr}, n)$, $(^{54}\text{Cr}, 2n)$, $^{208}\text{Pb}(^{58}\text{Fe}, n)$, $(^{54}\text{Cr}, 2n)$, $^{209}\text{Bi}(^{54}\text{Cr}, n)$, $(^{50}\text{Ti}, n)$, $(^{50}\text{Ti}, 2n)$, $(^{48}\text{Ca}, 4n)$, E not given; measured $E\alpha$, $I\alpha$, $E\gamma$, (fragment) α -coin, $\alpha\psi$ -coin, σ ; deduced decay chain properties, $T_{1/2}$, levels, J, π . Comparison with other data and calculations. JOUR ZAANE 41 145 |
| | 2009HE20 | RADIOACTIVITY ^{249}Md , ^{253}Lr , $^{257,258}\text{Db}$, $^{259,260}\text{Sg}$, ^{262}Bh , $^{265}\text{Hs}(\alpha)$, (SF), (EC); measured $E\alpha$, $I\alpha$, $T_{1/2}$; deduced levels, J, π . Analysis of decay chains and production routes. Comparison with other data and calculations. JOUR ZAANE 41 145 |
| | 2009M034 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{58}\text{Fe}, n)$, $(^{64}\text{Ni}, n)$, $(^{70}\text{Zn}, n)$, $^{209}\text{Bi}(^{64}\text{Ni}, n)$, $(^{70}\text{Zn}, n)$, E not given; measured reaction fragments, $E\alpha$, $I\alpha$; ^{265}Hs , ^{271}Ds , ^{272}Rg , 27712, 27813 deduced as α -decay chain members. JOUR IMPEE 18 2175 |

A=266

No references found

A=267

No references found

A=268

No references found

A=269

No references found

A=270

No references found

A=271

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|-------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ^{271}Ds | 2009M034 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{58}\text{Fe}, n)$, $(^{64}\text{Ni}, n)$, $(^{70}\text{Zn}, n)$, $^{209}\text{Bi}(^{64}\text{Ni}, n)$, $(^{70}\text{Zn}, n)$, E not given; measured reaction fragments, $E\alpha$, $I\alpha$; ^{265}Hs , ^{271}Ds , ^{272}Rg , 27712, 27813 deduced as α -decay chain members. JOUR IMPEE 18 2175 |
|-------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A=272

²⁷²Rg 2009M034 NUCLEAR REACTIONS ²⁰⁸Pb(⁵⁸Fe, n), (⁶⁴Ni, n), (⁷⁰Zn, n), ²⁰⁹Bi(⁶⁴Ni, n), (⁷⁰Zn, n), E not given; measured reaction fragments, E α , I α ; ²⁶⁵Hs, ²⁷¹Ds, ²⁷²Rg, 27712, 27813 deduced as α -decay chain members. JOUR IMPEE 18 2175

A=273

No references found

A=274

No references found

A=275

No references found

A=276

No references found

A=277

²⁷⁷112 2009M034 NUCLEAR REACTIONS ²⁰⁸Pb(⁵⁸Fe, n), (⁶⁴Ni, n), (⁷⁰Zn, n), ²⁰⁹Bi(⁶⁴Ni, n), (⁷⁰Zn, n), E not given; measured reaction fragments, E α , I α ; ²⁶⁵Hs, ²⁷¹Ds, ²⁷²Rg, 27712, 27813 deduced as α -decay chain members. JOUR IMPEE 18 2175

A=278

²⁷⁸113 2009M034 NUCLEAR REACTIONS ²⁰⁸Pb(⁵⁸Fe, n), (⁶⁴Ni, n), (⁷⁰Zn, n), ²⁰⁹Bi(⁶⁴Ni, n), (⁷⁰Zn, n), E not given; measured reaction fragments, E α , I α ; ²⁶⁵Hs, ²⁷¹Ds, ²⁷²Rg, 27712, 27813 deduced as α -decay chain members. JOUR IMPEE 18 2175

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

No references found

A=286

²⁸⁶ 114	2009ST21	NUCLEAR REACTIONS ²⁴² Pu(⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), E(cm)=244 MeV; measured E α , I α and α -decay chains; deduced σ . Berkeley Gas-filled Separator (BGS). JOUR PRLTA 103 132502
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A=287

²⁸⁷ 114	2009ST21	NUCLEAR REACTIONS ²⁴² Pu(⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), E(cm)=244 MeV; measured E α , I α and α -decay chains; deduced σ . Berkeley Gas-filled Separator (BGS). JOUR PRLTA 103 132502
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