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## Keynumbers and Keywords

## A=1

$^1\text{n}$	2007AL22	NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e')$ , ( $\text{polarized } e, e'p$ ), ( $\text{polarized } e, e'n$ ), ( $\text{polarized } e, e'\pi$ ), $E=850$ MeV; measured particle spectra, asymmetries. $^1\text{n}$ , $^1\text{H}$ ; deduced electric and magnetic form factors. Polarized targets. JOUR ZAANE 31 588
	2007AN08	NUCLEAR REACTIONS $^3\text{He}(\text{polarized } e, e')$ , $E=0.778, 1.727$ GeV; measured quasielastic transverse asymmetry. $^1\text{n}$ deduced magnetic form factor. Polarized target, nonrelativistic Fadeev calculation. JOUR PRVCA 75 034003
	2007AN11	NUCLEAR REACTIONS $^1\text{H}$ , $^4\text{He}(\text{polarized } e, e)$ , $E$ not given; measured parity-violating electroweak asymmetry. $^1\text{n}$ , $^1\text{H}$ ; deduced strange quark contributions to the nucleon electromagnetic form factors. JOUR ZAANE 31 597
	2007FR07	NUCLEAR REACTIONS $^2\text{H}$ , $^6\text{Li}(\text{polarized } \mu, \mu')$ , $E$ at 160 GeV / c; measured scattering asymmetries. $^1\text{n}$ , $^1\text{H}$ ; deduced spin structure. JOUR ZAANE 31 620
	2007TU02	NUCLEAR REACTIONS $^2\text{H}(p, 2p)$ , $E=5$ MeV; measured cross sections. Analyzed data using the Trojan Horse Method to deduce off-energy shell effects on p-p scattering. JOUR PRLTA 98 252502
	2007TY02	NUCLEAR REACTIONS $^1\text{H}(e, e'\pi^+)$ , ( $e, e'X$ ), $E=27.6$ GeV; measured pion, pion pair, and $\rho^0 \sigma(Q^2)$ . JOUR ZAANE 31 451
$^1\text{H}$	2007AL22	NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e')$ , ( $\text{polarized } e, e'p$ ), ( $\text{polarized } e, e'n$ ), ( $\text{polarized } e, e'\pi$ ), $E=850$ MeV; measured particle spectra, asymmetries. $^1\text{n}$ , $^1\text{H}$ ; deduced electric and magnetic form factors. Polarized targets. JOUR ZAANE 31 588
	2007AN11	NUCLEAR REACTIONS $^1\text{H}$ , $^4\text{He}(\text{polarized } e, e)$ , $E$ not given; measured parity-violating electroweak asymmetry. $^1\text{n}$ , $^1\text{H}$ ; deduced strange quark contributions to the nucleon electromagnetic form factors. JOUR ZAANE 31 597
	2007BU05	NUCLEAR REACTIONS $^1\text{H}(\text{polarized } p, p)$ , $E(\text{cm})=200$ GeV; measured double spin asymmetries. Comparison with theory, polarised target. JOUR PYLBB 647 98
	2007DA14	NUCLEAR REACTIONS $^1\text{H}(\gamma, \gamma')$ , $E=2.34, 3.48, 4.62, 5.75$ GeV bremsstrahlung; measured Compton scattering $\sigma, \sigma(\theta)$ . JOUR PRLTA 98 152001
	2007FE08	NUCLEAR REACTIONS $^1\text{H}(e, e'\pi^+\pi^-)$ , $E=1.5$ GeV; measured cross sections for small photon virtualities using the CLAS detector at TJNAF. JOUR BRSP 71 314
	2007FR07	NUCLEAR REACTIONS $^2\text{H}$ , $^6\text{Li}(\text{polarized } \mu, \mu')$ , $E$ at 160 GeV / c; measured scattering asymmetries. $^1\text{n}$ , $^1\text{H}$ ; deduced spin structure. JOUR ZAANE 31 620
	2007JA07	NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e'\gamma)$ , $E=854.6$ MeV; measured $E\gamma$ , $\text{re}^1\text{H}$ deduced generalized polarizabilities. JOUR ZAANE 31 610
	2007MA23	NUCLEAR REACTIONS $^1\text{H}(\text{polarized } d, d)$ , $E=130, 180$ MeV; measured vector and tensor analyzing powers. JOUR ZAANE 31 383

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**A=1** (*continued*)

- 2007SA14 NUCLEAR REACTIONS  $^1\text{H}(n, n'\gamma)$ ,  $E=175\text{-}275$  MeV; measured  $E_p$ ,  $E_n$ ,  $\sigma(\theta(n), \theta(p), \theta(\gamma))$ . Comparison with relativistic soft-photon and nonrelativistic models. JOUR PRVCA 75 031001
- 2007WE03 NUCLEAR REACTIONS  $^1\text{H}(\text{polarized } e, e)$ ,  $E$  at  $5.755$  GeV / c; measured asymmetries.  $^1\text{H}$  deduced spin structure functions in resonance region. JOUR PRLTA 98 132003

**A=2**

- $^2\text{H}$  2007AL20 NUCLEAR REACTIONS  $^2\text{H}$ ,  $^6\text{Li}(\text{polarized } \mu^+, \mu^+X)$ ,  $E$  at  $160$  GeV / c; measured longitudinal spin asymmetry.  $^2\text{H}$  deduced spin structure function. Comparison with previous results. JOUR PYLBB 647 8
- 2007AL21 NUCLEAR REACTIONS  $^2\text{H}$ ,  $^6\text{Li}(\text{polarized } \mu^+, \mu^+X)$ ,  $E$  at  $160$  GeV / c; measured longitudinal spin asymmetry.  $^2\text{H}$  deduced spin structure function. Comparison with previous results. JOUR PYLBB 647 330
- 2007AL22 NUCLEAR REACTIONS  $^1,2\text{H}(\text{polarized } e, e')$ ,  $(\text{polarized } e, e'p)$ ,  $(\text{polarized } e, e'n)$ ,  $(\text{polarized } e, e'\pi)$ ,  $E=850$  MeV; measured particle spectra, asymmetries.  $^1n$ ,  $^1\text{H}$ ; deduced electric and magnetic form factors. Polarized targets. JOUR ZAANE 31 588
- 2007AM03 NUCLEAR REACTIONS  $^1\text{H}(\text{polarized } d, p)$ ,  $E=90$  MeV / nucleon; measured cross section, vector and tensor analyzing powers, induced polarization, vector and tensor spin transfer coefficients. JOUR PRVCA 75 041001
- 2007FR07 NUCLEAR REACTIONS  $^2\text{H}$ ,  $^6\text{Li}(\text{polarized } \mu, \mu')$ ,  $E$  at  $160$  GeV / c; measured scattering asymmetries.  $^1n$ ,  $^1\text{H}$ ; deduced spin structure. JOUR ZAANE 31 620
- 2007K036 NUCLEAR REACTIONS  $^2\text{H}$ ,  $^6\text{Li}(\text{polarized } \mu, \mu')$ ,  $E=160$  GeV; measured scattering asymmetry.  $^2\text{H}$ ; deduced spin dependent structure function. JOUR ZAANE 31 606
- 2007MI15 NUCLEAR REACTIONS  $^2\text{H}(d, d)$ ,  $E=231.8$  MeV; measured  $\sigma$ , angular distributions and analyzing powers. Compared results to calculations. JOUR PRVCA 75 054001

**A=3**

- $^3\text{H}$  2007AF02 NUCLEAR REACTIONS  $^{12}\text{C}(\gamma, p2\alpha)$ ,  $(\gamma, n2\alpha)$ ,  $E < 150$  MeV; measured cross sections and angular distributions. JOUR PANUE 70 839
- 2007HU06 NUCLEAR REACTIONS  $^2\text{H}(d, n)$ ,  $(d, p)$ ,  $E=\text{low}$ ; measured fusion rates, screening effects for reaction in metals. JOUR NIMBE 256 599
- $^3\text{He}$  2006AN37 NUCLEAR REACTIONS  $^4\text{He}(\pi^+, \pi^+)$ ,  $(\pi^+, \pi^+')$ ,  $(\pi^+, \pi^+n)$ ,  $(\pi^+, \pi^0p)$ ,  $(\pi^-, \pi^-)$ ,  $(\pi^-, \pi^-')$ ,  $(\pi^-, \pi^-n)$ ,  $E$  at  $218$  MeV / c; measured  $\sigma(\theta)$ , branching ratios. JOUR NIFBA 121 771
- 2007AF02 NUCLEAR REACTIONS  $^{12}\text{C}(\gamma, p2\alpha)$ ,  $(\gamma, n2\alpha)$ ,  $E < 150$  MeV; measured cross sections and angular distributions. JOUR PANUE 70 839

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KEYNUMBERS AND KEYWORDS

**A=3** (*continued*)

- 2007AN08 NUCLEAR REACTIONS  $^3\text{He}(\text{polarized } e, e')$ ,  $E=0.778, 1.727$  GeV; measured quasielastic transverse asymmetry.  $^1\text{n}$  deduced magnetic form factor. Polarized target, nonrelativistic Fadeev calculation. JOUR PRVCA 75 034003
- 2007HU06 NUCLEAR REACTIONS  $^2\text{H}(\text{d}, \text{n})$ ,  $(\text{d}, \text{p})$ ,  $E=\text{low}$ ; measured fusion rates, screening effects for reaction in metals. JOUR NIMBE 256 599
- 2007ME11 NUCLEAR REACTIONS  $^1\text{H}(\text{d}, \text{X})^3\text{He}$ ,  $E$  not given; measured  $\sigma$  and asymmetry factor for  $\eta$  production. Searched for  $\eta^3\text{He}$  quasibound state. JOUR PRLTA 98 242301
- 2007RY02 NUCLEAR REACTIONS  $^4\text{He}(\gamma, \pi^- \text{p})$ ,  $E_\gamma=1.6\text{-}4.5$  GeV;  $^{12}\text{C}(\text{p}, 2\text{p})$ ,  $E_p=1$  GeV; measured  $\sigma$ , compared to model calculations. JOUR ZAANE 31 585

**A=4**

- $^4\text{He}$  2006AN37 NUCLEAR REACTIONS  $^4\text{He}(\pi^+, \pi^+)$ ,  $(\pi^+, \pi^+')$ ,  $(\pi^+, \pi^+ \text{n})$ ,  $(\pi^+, \pi^0 \text{p})$ ,  $(\pi^-, \pi^-)$ ,  $(\pi^-, \pi^-')$ ,  $(\pi^-, \pi^- \text{n})$ ,  $E$  at 218 MeV / c; measured  $\sigma(\theta)$ , branching ratios. JOUR NIFBA 121 771
- 2007AN11 NUCLEAR REACTIONS  $^1\text{H}$ ,  $^4\text{He}(\text{polarized } e, e)$ ,  $E$  not given; measured parity-violating electroweak asymmetry.  $^1\text{n}$ ,  $^1\text{H}$ ; deduced strange quark contributions to the nucleon electromagnetic form factors. JOUR ZAANE 31 597
- 2007PAZZ NUCLEAR REACTIONS  $^4\text{He}(\text{K}^-, \pi^-)$ ,  $E$  at 750 MeV / c; measured lifetime, mesonic and non-mesonic decay rates for  $^4_\Lambda\text{He}$  hypernucleus. PREPRINT arXiv:0705.3311v1 [nucl-ex]

**A=5**

No references found

**A=6**

- $^6\text{He}$  2007BE19 NUCLEAR REACTIONS  $^{27}\text{Al}(^6\text{He}, ^6\text{He})$ ,  $E=9.5, 11.0, 12.0, 13.4$  MeV; measured  $\sigma$ ,  $\sigma(\theta)$ .  $^6\text{He}$  deduced radius, deformation parameters.  $^{27}\text{Al}(^6\text{Li}, ^6\text{Li})$ ,  $(^7\text{Li}, ^7\text{Li})$ ,  $(^9\text{Be}, ^9\text{Be})$ ,  $(^{16}\text{O}, ^{16}\text{O})$ ,  $E\approx 7\text{-}45$  MeV; analysed total  $\sigma$ .  $^6,7\text{Li}$ ,  $^9\text{Be}$ ,  $^{16}\text{O}$  deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30
- 2007HA13 NUCLEAR REACTIONS  $^6\text{Li}(\gamma, \pi^+)$ ,  $E=170\text{-}220$  MeV; measured pion spectra,  $\sigma(E, \theta)$ . Comparison with model predictions, previous results. JOUR PRVCA 75 044311
- 2007K023 NUCLEAR REACTIONS  $^{209}\text{Bi}(^6\text{He}, 2\text{n}\alpha)$ ,  $E=22.5$  MeV; measured  $E_n$ ,  $E_\alpha$ ,  $\text{n}\alpha$ -coin,  $\sigma(\theta)$ ; deduced reaction mechanism features.  $^6\text{He}$  level deduced  $B(E2)$ . JOUR PRVCA 75 031302

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**A=6 (continued)**

- <sup>6</sup>Li      2007BE19      NUCLEAR REACTIONS <sup>27</sup>Al(<sup>6</sup>He, <sup>6</sup>He), E=9.5, 11.0, 12.0, 13.4 MeV; measured  $\sigma$ ,  $\sigma(\theta)$ . <sup>6</sup>He deduced radius, deformation parameters. <sup>27</sup>Al(<sup>6</sup>Li, <sup>6</sup>Li), (<sup>7</sup>Li, <sup>7</sup>Li), (<sup>9</sup>Be, <sup>9</sup>Be), (<sup>16</sup>O, <sup>16</sup>O), E $\approx$ 7-45 MeV; analysed total  $\sigma$ . <sup>6,7</sup>Li, <sup>9</sup>Be, <sup>16</sup>O deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30
- 2007FR07      NUCLEAR REACTIONS <sup>2</sup>H, <sup>6</sup>Li(polarized  $\mu$ ,  $\mu'$ ), E at 160 GeV / c; measured scattering asymmetries. <sup>1</sup>n, <sup>1</sup>H; deduced spin structure. JOUR ZAANE 31 620
- 2007K036      NUCLEAR REACTIONS <sup>2</sup>H, <sup>6</sup>Li(polarized  $\mu$ ,  $\mu'$ ), E=160 GeV; measured scattering asymmetry. <sup>2</sup>H; deduced spin dependent structure function. JOUR ZAANE 31 606

**A=7**

- <sup>7</sup>Li      2007BE19      NUCLEAR REACTIONS <sup>27</sup>Al(<sup>6</sup>He, <sup>6</sup>He), E=9.5, 11.0, 12.0, 13.4 MeV; measured  $\sigma$ ,  $\sigma(\theta)$ . <sup>6</sup>He deduced radius, deformation parameters. <sup>27</sup>Al(<sup>6</sup>Li, <sup>6</sup>Li), (<sup>7</sup>Li, <sup>7</sup>Li), (<sup>9</sup>Be, <sup>9</sup>Be), (<sup>16</sup>O, <sup>16</sup>O), E $\approx$ 7-45 MeV; analysed total  $\sigma$ . <sup>6,7</sup>Li, <sup>9</sup>Be, <sup>16</sup>O deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30
- 2007HA06      NUCLEAR REACTIONS <sup>10</sup>B(n,  $\alpha$ ), E=0.1-2000 keV; measured E $\alpha$ ,  $\sigma(E)$ , branching ratio for emission to ground, first excited state. JOUR NSENA 156 103
- 2007OH02      RADIOACTIVITY <sup>7</sup>Be(EC); measured decay rate in C<sub>60</sub> at liquid helium temperature. Compared results to model calculations. JOUR PRLTA 98 252501
- <sup>7</sup>Be      2007COZZ      NUCLEAR REACTIONS <sup>3</sup>He( $\alpha$ ,  $\gamma$ ), E(cm)=86, 106, 170 keV; measured E $\gamma$ , I $\gamma$  and cross section. Deduced s-factor. PREPRINT arXiv:0705.2151v1 [nucl-ex]
- 2007GY01      NUCLEAR REACTIONS <sup>3</sup>He( $\alpha$ ,  $\gamma$ ), E=250, 300, 350, 400 keV; measured E $\gamma$ , I $\gamma$ ,  $\sigma$ ; deduced astrophysical S-factor. JOUR PRVCA 75 035805
- 2007OH02      RADIOACTIVITY <sup>7</sup>Be(EC); measured decay rate in C<sub>60</sub> at liquid helium temperature. Compared results to model calculations. JOUR PRLTA 98 252501
- 2007TI03      NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

**A=8**

- <sup>8</sup>Be      2007GU13      NUCLEAR REACTIONS <sup>9</sup>Be(<sup>8</sup>Li, <sup>8</sup>Li), <sup>9</sup>Be(<sup>8</sup>Li, <sup>7</sup>Li), <sup>9</sup>Be(<sup>8</sup>Li, <sup>9</sup>Li), E=27 MeV; measured  $\sigma$  and angular distributions. Deduced spectroscopic factors, compared results to optical model calculations. JOUR PRVCA 75 054602
- <sup>8</sup>B      2007YAZY      NUCLEAR REACTIONS <sup>1</sup>H(<sup>7</sup>Be,  $\gamma$ ), E=53.8 MeV; measured excitation function. CONF Geneva(NIC-IX) 049

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**A=9**

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| <sup>9</sup> Li | 2007MAZY | RADIOACTIVITY <sup>9</sup> Li( $\beta^-$ ); measured $\beta$ -delayed $E\alpha$ . <sup>9</sup> Be; measured breakup of the 2.43 state. CONF Geneva(NIC-IX) 135  |
| <sup>9</sup> Be | 2007BE19 | NUCLEAR REACTIONS <sup>27</sup> Al( <sup>6</sup> He, <sup>6</sup> He), E=9.5, 11.0, 12.0, 13.4 MeV; measured $\sigma$ , $\sigma(\theta)$ . <sup>6</sup> He deduced radius, deformation parameters. <sup>27</sup> Al( <sup>6</sup> Li, <sup>6</sup> Li), ( <sup>7</sup> Li, <sup>7</sup> Li), ( <sup>9</sup> Be, <sup>9</sup> Be), ( <sup>16</sup> O, <sup>16</sup> O), E $\approx$ 7-45 MeV; analysed total $\sigma$ . <sup>6,7</sup> Li, <sup>9</sup> Be, <sup>16</sup> O deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30 |
|                 | 2007CH39 | NUCLEAR REACTIONS <sup>9</sup> Be( <sup>10</sup> C, <sup>10</sup> C), E=10.7 MeV / nucleon; measured $E_p$ , $E\alpha$ , $2p2\alpha$ decay of the excited states; <sup>10</sup> C; deduced level energies and intrinsic widths for particle unbound states. JOUR PRVCA 75 051304  |
|                 | 2007GU13 | NUCLEAR REACTIONS <sup>9</sup> Be( <sup>8</sup> Li, <sup>8</sup> Li), <sup>9</sup> Be( <sup>8</sup> Li, <sup>7</sup> Li), <sup>9</sup> Be( <sup>8</sup> Li, <sup>9</sup> Li), E=27 MeV; measured $\sigma$ and angular distributions. Deduced spectroscopic factors, compared results to optical model calculations. JOUR PRVCA 75 054602  |
|                 | 2007MAZY | RADIOACTIVITY <sup>9</sup> Li( $\beta^-$ ); measured $\beta$ -delayed $E\alpha$ . <sup>9</sup> Be; measured breakup of the 2.43 state. CONF Geneva(NIC-IX) 135  |
|                 | 2007PA21 | NUCLEAR REACTIONS <sup>9</sup> Be( <sup>6</sup> Li, <sup>6</sup> Li'), E=60 MeV; measured $E\alpha$ , $I\alpha$ , $\alpha\alpha$ -coin, angular correlations following break-up. <sup>9</sup> Be deduced excited state partial decay widths, branching ratios. Astrophysical implications discussed. JOUR PRVCA 75 045803   |

**A=10**

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| <sup>10</sup> Be | 2007B018 | NUCLEAR REACTIONS <sup>12</sup> C( <sup>12</sup> C, <sup>14</sup> O), E=211.4 MeV; measured $\sigma$ and angular distributions. Deduced level energies, J, $\pi$ . JOUR PRVCA 75 054604  |
|                  | 2007GU13 | NUCLEAR REACTIONS <sup>9</sup> Be( <sup>8</sup> Li, <sup>8</sup> Li), <sup>9</sup> Be( <sup>8</sup> Li, <sup>7</sup> Li), <sup>9</sup> Be( <sup>8</sup> Li, <sup>9</sup> Li), E=27 MeV; measured $\sigma$ and angular distributions. Deduced spectroscopic factors, compared results to optical model calculations. JOUR PRVCA 75 054602 |
|                  | 2007S006 | NUCLEAR REACTIONS <sup>10</sup> B(n, p), E=70240 MeV; measured $\sigma(E, \theta)$ . Comparison with zero- and finite-range DWIA predictions. JOUR PRVCA 75 034611   |
| <sup>10</sup> C  | 2007CH39 | NUCLEAR REACTIONS <sup>9</sup> Be( <sup>10</sup> C, <sup>10</sup> C), E=10.7 MeV / nucleon; measured $E_p$ , $E\alpha$ , $2p2\alpha$ decay of the excited states; <sup>10</sup> C; deduced level energies and intrinsic widths for particle unbound states. JOUR PRVCA 75 051304   |

**A=11**

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| <sup>11</sup> Li | 2006SA52 | NUCLEAR MOMENTS <sup>11</sup> Li; measured optical isotope shift; deduced charge radius. Laser spectroscopy. JOUR HYIND 171 181   |
| <sup>11</sup> B  | 2007RY02 | NUCLEAR REACTIONS <sup>4</sup> He( $\gamma$ , $\pi^-p$ ), $E\gamma=1.6-4.5$ GeV; <sup>12</sup> C(p, 2p), $E_p=1$ GeV; measured $\sigma$ , compared to model calculations. JOUR ZAANE 31 585 |

**A=12**

$^{12}\text{Be}$	2007SHZY	RADIOACTIVITY $^{12}\text{Be(IT)}$ ; measured $E\gamma$ , $I\gamma$ and lifetimes; deduced level energy, $B(E2)$ , $B(E0)$ . REPT CNS-REP-71
$^{12}\text{B}$	2007IOZY	error - unable to convert to LaTeX : Illegal close bracket PREPRINT arXiv:0705.3332v1 [nucl-ex]
	2007PEZY	RADIOACTIVITY $^{12}\text{B}(\beta^-)$ , $^{12}\text{N}(\beta^+)$ ; measured branching $\beta$ -decay ratios. CONF Geneva(NIC-IX) 244
$^{12}\text{C}$	2006LE45	NUCLEAR REACTIONS $^{12}\text{C}(p, p)$ , $^{12}\text{C}(p, p\gamma)$ $E=7.5$ MeV; measured $\sigma$ and angular distributions for ground state and low excited states. JOUR BRSPPE 70 1883
	2007ALZZ	NUCLEAR REACTIONS $^{10}\text{B}(^3\text{He}, p)$ , $E=2.45$ MeV; measured excitation spectrum. CONF Geneva(NIC-IX) 067
	2007BL10	NUCLEAR REACTIONS $^{12}\text{C}$ , $^{208}\text{Pb}(n, n)$ , $E=96$ MeV; Fe, Pb, U(n, pX), (n, dX), (n, tX), $E=96$ MeV; measured $\sigma(\theta)$ . $^{181}\text{Ta}$ , W, $^{197}\text{Au}$ , Pb, $^{208}\text{Pb}(n, F)$ , $E=20-200$ MeV; measured fission $\sigma$ . Cu(n, X) $^{56}\text{Co}$ , $E=50-180$ MeV; measured $\sigma$ . JOUR PRAMC 68 269
	2007FR05	NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, 3\alpha)$ , $E=104, 106$ MeV; measured $E\alpha$ , $\alpha\alpha$ -coin, relative velocity spectra; deduced no strong Coulomb repulsion or quantum statistics effects. JOUR JPGPE 34 789
	2007PEZY	RADIOACTIVITY $^{12}\text{B}(\beta^-)$ , $^{12}\text{N}(\beta^+)$ ; measured branching $\beta$ -decay ratios. CONF Geneva(NIC-IX) 244
$^{12}\text{N}$	2007DOZZ	NUCLEAR REACTIONS $^{12}\text{C}(\text{polarized } p, n)$ , $E=296$ MeV; measured $\sigma(E, \theta=0^\circ)$ , polarization transfer observables. PREPRINT arXiv:0704.0670v1 [nucl-ex]
	2007PEZY	RADIOACTIVITY $^{12}\text{B}(\beta^-)$ , $^{12}\text{N}(\beta^+)$ ; measured branching $\beta$ -decay ratios. CONF Geneva(NIC-IX) 244

**A=13**

$^{13}\text{N}$	2007LH01	NUCLEAR REACTIONS $^{13}\text{C}(p, n)$ , $E=20, 25, 40$ MeV; measured neutron energy, $\sigma$ and angular distributions. Compared results to existing data and model calculations. JOUR NIMAE 576 371
$^{13}\text{O}$	2007GUZW	NUCLEAR REACTIONS $^{16}\text{O}(^3\text{He}, ^6\text{He})^{13}\text{O}$ , $E=79.9$ MeV; measured momentum spectra and $\sigma$ at 9 laboratory angles. $^{13}\text{O}$ deduced level energies, energy between the first positive parity state and the proton threshold energy. CONF Iguazu(Nuclear Physics and Applications) Proc,P123,Guimaraes

**A=14**

$^{14}\text{N}$	2007CH25	NUCLEAR REACTIONS $^{14}\text{N}(\alpha, \gamma)$ , $E=1620-1775$ keV; measured $E\gamma$ , $I\gamma$ ; deduced resonance parameters. $^{17}\text{O}(p, \alpha)$ , $E=194-204$ keV; measured $E\alpha$ , $\sigma(E, \theta)$ ; deduced resonance energy, strength. Astrophysical implications discussed. JOUR PRVCA 75 035810
	2007NE08	NUCLEAR REACTIONS $^{17}\text{O}(p, \alpha)$ , $E=140-210$ keV; measured yields and resonance strength for the 193 keV resonance. JOUR PRVCA 75 055808



KEYNUMBERS AND KEYWORDS

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**A=15**

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| <sup>15</sup> C | 2007B010 | NUCLEAR REACTIONS <sup>12,14</sup> C( <sup>12</sup> C, <sup>9</sup> C), E=231 MeV; measured particle spectra, $\sigma(E, \theta)$ . <sup>15,17</sup> C deduced levels, J, $\pi$ , configurations. JOUR ZAANE 31 279                    |
| <sup>15</sup> O | 2007CHZW | NUCLEAR REACTIONS <sup>18</sup> F(p, $\alpha$ ), E(cm)=663-877 keV; measured cross section and excitation function. Deduced interference effects and astrophysical S-factor. CONF Geneva(NIC-IX) 273                                   |
|                 | 2007DEZT | NUCLEAR REACTIONS <sup>1</sup> H( <sup>18</sup> F, $\alpha$ ), E=8.6-13.8 MeV; measured $E\alpha$ in coincidence with <sup>15</sup> O. <sup>18</sup> F(p, $\alpha$ ); deduced cross sections. CONF Geneva(NIC-IX) 005                  |
|                 | 2007IM02 | NUCLEAR REACTIONS <sup>14</sup> N(p, $\gamma$ ), E not given; measured cross section at LUNA accelerator facility. JOUR PPNPD 59 193   |
|                 | 2007TA13 | RADIOACTIVITY <sup>19</sup> Ne( $\alpha$ ) [from <sup>19</sup> F( <sup>3</sup> He, t)]; measured $E\alpha$ , $I\alpha$ . <sup>15</sup> O( $\alpha$ , $\gamma$ ); deduced reaction rate at astrophysical energies. JOUR PRLTA 98 242503 |

**A=16**

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| <sup>16</sup> O | 2007BE19 | NUCLEAR REACTIONS <sup>27</sup> Al( <sup>6</sup> He, <sup>6</sup> He), E=9.5, 11.0, 12.0, 13.4 MeV; measured $\sigma$ , $\sigma(\theta)$ . <sup>6</sup> He deduced radius, deformation parameters. <sup>27</sup> Al( <sup>6</sup> Li, <sup>6</sup> Li), ( <sup>7</sup> Li, <sup>7</sup> Li), ( <sup>9</sup> Be, <sup>9</sup> Be), ( <sup>16</sup> O, <sup>16</sup> O), E $\approx$ 7-45 MeV; analysed total $\sigma$ . <sup>6,7</sup> Li, <sup>9</sup> Be, <sup>16</sup> O deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30 |
|                 | 2007COZY | NUCLEAR REACTIONS <sup>19</sup> F(p, $\gamma$ ), (p, $\alpha\gamma$ ), E=200-800 keV; measured yields, resonance parameters and interference terms. CONF Geneva(NIC-IX) 082   |
|                 | 2007MAZX | NUCLEAR REACTIONS <sup>12</sup> C( $\alpha$ , $\gamma$ ), E(cm)=1.4, 1.6 MeV; measured $E\gamma$ , angular distribution from direct $\alpha$ capture. Deduced cross sections. CONF Geneva(NIC-IX) 136   |
|                 | 2007PEZZ | NUCLEAR REACTIONS <sup>13</sup> C( <sup>7</sup> Li, t), E=28, 34 MeV; measured $\sigma$ and angular distributions. <sup>13</sup> C( $\alpha$ , n); deduced $S\alpha$ factor. CONF Geneva(NIC-IX) 161  |

**A=17**

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|-----------------|----------|---|
| <sup>17</sup> C | 2007B010 | NUCLEAR REACTIONS <sup>12,14</sup> C( <sup>12</sup> C, <sup>9</sup> C), E=231 MeV; measured particle spectra, $\sigma(E, \theta)$ . <sup>15,17</sup> C deduced levels, J, $\pi$ , configurations. JOUR ZAANE 31 279 |
| <sup>17</sup> O | 2007PEZZ | NUCLEAR REACTIONS <sup>13</sup> C( <sup>7</sup> Li, t), E=28, 34 MeV; measured $\sigma$ and angular distributions. <sup>13</sup> C( $\alpha$ , n); deduced $S\alpha$ factor. CONF Geneva(NIC-IX) 161                |

**A=18**

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|-----------------|----------|--|
| <sup>18</sup> N | 2007L005 | RADIOACTIVITY <sup>18</sup> N( $\beta^-$ ); measured $\beta$ -delayed neutron spectra. <sup>18</sup> O; deduced level energies, J, $\pi$ . Deduced B(GT), compared to shell model calculations. JOUR PRVCA 75 057302 |
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KEYNUMBERS AND KEYWORDS

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**A=18 (continued)**

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| $^{18}\text{O}$ | 2007L005 | RADIOACTIVITY $^{18}\text{N}(\beta^-)$ ; measured $\beta$ -delayed neutron spectra. $^{18}\text{O}$ ; deduced level energies, J, $\pi$ . Deduced B(GT), compared to shell model calculations. JOUR PRVCA 75 057302   |
| $^{18}\text{F}$ | 2007CH25 | NUCLEAR REACTIONS $^{14}\text{N}(\alpha, \gamma)$ , E=1620-1775 keV; measured $E\gamma$ , $I\gamma$ ; deduced resonance parameters. $^{17}\text{O}(\text{p}, \alpha)$ , E=194-204 keV; measured $E\alpha$ , $\sigma(E, \theta)$ ; deduced resonance energy, strength. Astrophysical implications discussed. JOUR PRVCA 75 035810 |
|                 | 2007LEZY | NUCLEAR REACTIONS $^{18}\text{F}(\alpha, \text{p})$ , E(cm)=1.4-2.3 MeV; measured excitation function. $^{21}\text{Ne}(\text{p}, \alpha)$ , E=2.5-3.5 MeV; measured cross section. CONF Geneva(NIC-IX) 131   |

**A=19**

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|------------------|----------|--|
| $^{19}\text{Ne}$ | 2007HOZY | NUCLEAR REACTIONS $^{17}\text{O}(^3\text{He}, \text{n})$ , E=4.2 MeV; measured $\sigma$ using the NTOF technique. CONF Geneva(NIC-IX) 119  |
|                  | 2007TA13 | RADIOACTIVITY $^{19}\text{Ne}(\alpha)$ [from $^{19}\text{F}(^3\text{He}, \text{t})$ ]; measured $E\alpha$ , $I\alpha$ . $^{15}\text{O}(\alpha, \gamma)$ ; deduced reaction rate at astrophysical energies. JOUR PRLTA 98 242503                  |
|                  | 2007TAZX | NUCLEAR REACTIONS $^{19}\text{F}(^3\text{He}, \text{t})$ , E=24 MeV; measured $\alpha$ -decay branching ratio for the astrophysically important 4.03 MeV state. $^{15}\text{O}(\alpha, \gamma)$ ; deduced reaction rate. CONF Geneva(NIC-IX) 023 |

**A=20**

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| $^{20}\text{F}$  | 2007UB01 | NUCLEAR REACTIONS $^{19}\text{F}(\text{n}, \gamma)$ , E=spectrum; measured $E\gamma$ , $I\gamma$ , Maxwellian averaged $\sigma$ . Astrophysical implications discussed. JOUR PRVCA 75 035801   |
|                  | 2007UBZZ | NUCLEAR REACTIONS $^{19}\text{F}(\text{n}, \gamma)$ , E=spectrum; measured yield, cross section using activation technique. CONF Geneva(NIC-IX) 186  |
| $^{20}\text{Ne}$ | 2006TAZU | NUCLEAR REACTIONS $^{24}\text{Mg}(\text{e}, \text{e}'\alpha)$ , E=199.31 MeV; measured energy and angular distributions; deduced strength distribution for individual multipolarities. JOUR KKYHB 39 21  |
|                  | 2007COZY | NUCLEAR REACTIONS $^{19}\text{F}(\text{p}, \gamma)$ , ( $\text{p}, \alpha\gamma$ ), E=200-800 keV; measured yields, resonance parameters and interference terms. CONF Geneva(NIC-IX) 082   |
| $^{20}\text{Na}$ | 2007MUZZ | NUCLEAR REACTIONS $^{20}\text{Na}(\text{p}, \text{p})$ , E(cm)< 1.6 MeV; measured $\sigma$ , excitation function in inverse kinematics using the resonant elastic scattering. $^{21}\text{Mg}$ ; deduced level energies and proton decay widths. CONF Geneva(NIC-IX) 146 |

**A=21**

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| $^{21}\text{Ne}$ | 2007LEZY | NUCLEAR REACTIONS $^{18}\text{F}(\alpha, \text{p})$ , E(cm)=1.4-2.3 MeV; measured excitation function. $^{21}\text{Ne}(\text{p}, \alpha)$ , E=2.5-3.5 MeV; measured cross section. CONF Geneva(NIC-IX) 131 |
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KEYNUMBERS AND KEYWORDS

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**A=21 (continued)**

<sup>21</sup>Mg      2007MUZZ      NUCLEAR REACTIONS <sup>20</sup>Na(p, p), E(cm)< 1.6 MeV; measured  $\sigma$ , excitation function in inverse kinematics using the resonant elastic scattering. <sup>21</sup>Mg; deduced level energies and proton decay widths. CONF Geneva(NIC-IX) 146

**A=22**

<sup>22</sup>Ne      2006INZY      RADIOACTIVITY <sup>22</sup>Na(EC); measured Auger electron spectra. REPT JINR-E6-2006-106,Inoyatov  
<sup>22</sup>Na      2006INZY      RADIOACTIVITY <sup>22</sup>Na(EC); measured Auger electron spectra. REPT JINR-E6-2006-106,Inoyatov  
<sup>22</sup>Mg      2007CLZZ      ATOMIC MASSES <sup>22</sup>Mg; measured masses using Canadian penning trap and the Yale spectrograph. <sup>26</sup>Si; measured mass using the Yale spectrograph. CONF Geneva(NIC-IX) 081

**A=23**

<sup>23</sup>F      2007KWZZ      NUCLEAR REACTIONS <sup>9</sup>Be, Ni, <sup>181</sup>Ta(<sup>40</sup>Ar, X)<sup>23</sup>F / <sup>24</sup>F / <sup>25</sup>F / <sup>26</sup>F / <sup>27</sup>F / <sup>29</sup>F, E=140 MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan

**A=24**

<sup>24</sup>F      2007KWZZ      NUCLEAR REACTIONS <sup>9</sup>Be, Ni, <sup>181</sup>Ta(<sup>40</sup>Ar, X)<sup>23</sup>F / <sup>24</sup>F / <sup>25</sup>F / <sup>26</sup>F / <sup>27</sup>F / <sup>29</sup>F, E=140 MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan  
<sup>24</sup>Na      2007TI03      NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

**A=25**

<sup>25</sup>F      2007KWZZ      NUCLEAR REACTIONS <sup>9</sup>Be, Ni, <sup>181</sup>Ta(<sup>40</sup>Ar, X)<sup>23</sup>F / <sup>24</sup>F / <sup>25</sup>F / <sup>26</sup>F / <sup>27</sup>F / <sup>29</sup>F, E=140 MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan  
<sup>25</sup>Ne      2007FE09      NUCLEAR REACTIONS <sup>2</sup>H(<sup>24</sup>Ne, x), E=10 MeV / nucleon; measured E $\gamma$ , (particle) $\gamma$ -coinc using EXOGAM. <sup>25</sup>Ne; deduced level energies, J,  $\pi$  and spectroscopic factors. JOUR PPNPD 59 389

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KEYNUMBERS AND KEYWORDS

**A=26**

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| $^{26}\text{F}$  | 2007KWZZ | NUCLEAR REACTIONS $^9\text{Be}$ , $\text{Ni}$ , $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{23}\text{F} / ^{24}\text{F} / ^{25}\text{F} / ^{26}\text{F} / ^{27}\text{F} / ^{29}\text{F}$ , $E=140$ MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan |
| $^{26}\text{Al}$ | 2007HE13 | NUCLEAR REACTIONS $^{14}\text{N}(^{16}\text{O}, \alpha)$ , $E(\text{cm})=7-12$ MeV; measured cross section using accelerator mass spectrometry. JOUR NIMBE 259 629   |
| $^{26}\text{Si}$ | 2007CLZZ | ATOMIC MASSES $^{22}\text{Mg}$ ; measured masses using Canadian penning trap and the Yale spectrograph. $^{26}\text{Si}$ ; measured mass using the Yale spectrograph. CONF Geneva(NIC-IX) 081  |
|                  | 2007KWZY | NUCLEAR REACTIONS $^{28}\text{Si}(\alpha, ^6\text{He})$ , $E=120$ MeV; measured $E\alpha$ and angular distributions. $^{26}\text{Si}$ ; deduced levels, $J$ , $\pi$ . CONF Geneva(NIC-IX) 024  |

**A=27**

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|------------------|----------|--|
| $^{27}\text{F}$  | 2007KWZZ | NUCLEAR REACTIONS $^9\text{Be}$ , $\text{Ni}$ , $^{181}\text{Ta}(^{40}\text{Ar}, \text{X})^{23}\text{F} / ^{24}\text{F} / ^{25}\text{F} / ^{26}\text{F} / ^{27}\text{F} / ^{29}\text{F}$ , $E=140$ MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan   |
| $^{27}\text{Mg}$ | 2006K055 | RADIOACTIVITY $^{27,29,31,33}\text{Mg}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})$ ]; measured $\beta$ -asymmetry and hfs, $\beta$ -NMR spectra from polarized source. $^{31}\text{Mg}$ deduced ground-state $J$ , $\pi$ , $\mu$ , quadrupole moment. JOUR HYIND 171 167  |
| $^{27}\text{Al}$ | 2006K055 | RADIOACTIVITY $^{27,29,31,33}\text{Mg}(\beta^-)$ [from $\text{U}(\text{p}, \text{X})$ ]; measured $\beta$ -asymmetry and hfs, $\beta$ -NMR spectra from polarized source. $^{31}\text{Mg}$ deduced ground-state $J$ , $\pi$ , $\mu$ , quadrupole moment. JOUR HYIND 171 167  |
|                  | 2007BE19 | NUCLEAR REACTIONS $^{27}\text{Al}(^6\text{He}, ^6\text{He})$ , $E=9.5, 11.0, 12.0, 13.4$ MeV; measured $\sigma$ , $\sigma(\theta)$ . $^6\text{He}$ deduced radius, deformation parameters. $^{27}\text{Al}(^6\text{Li}, ^6\text{Li})$ , $(^7\text{Li}, ^7\text{Li})$ , $(^9\text{Be}, ^9\text{Be})$ , $(^{16}\text{O}, ^{16}\text{O})$ , $E\approx 7-45$ MeV; analysed total $\sigma$ . $^6,7\text{Li}$ , $^9\text{Be}$ , $^{16}\text{O}$ deduced deformation parameters. Sao Paulo potential. JOUR PYLBB 647 30 |
|                  | 2007FIZZ | NUCLEAR REACTIONS $^{27}\text{Al}(^6\text{Li}, ^6\text{Li})$ , $E=7-18$ MeV; $^{27}\text{Al}(^7\text{Li}, ^7\text{Li})$ , $E=6-18$ MeV; measured $\sigma(\theta)$ near the Coulomb barrier. CONF Iguazu(Nuclear Physics and Applications) Proc,P185,Figueira   |
| $^{27}\text{Si}$ | 2007RUZZ | NUCLEAR REACTIONS $^1\text{H}(^{26}\text{Al}, \gamma)$ , $E=150-1800$ keV / nucleon; measured recoils in coincidence with $\gamma$ at DRAGON. $^{26}\text{Al}(\text{p}, \gamma)$ ; deduced resonance strength and energy. CONF Geneva(NIC-IX) 004  |

**A=28**

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|-----------------|----------|--|
| $^{28}\text{P}$ | 2007WA10 | NUCLEAR REACTIONS $^{28}\text{Si}(\text{polarized p}, \text{n})$ , $E=198$ MeV; measured excitation energy spectrum, $\sigma$ ; analysed spin-longitudinal and spin-transverse polarized $\sigma$ . Distorted-wave impulse approximation. JOUR PYLBB 645 402 |
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KEYNUMBERS AND KEYWORDS

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**A=29**

- <sup>29</sup>F      2007KWZZ      NUCLEAR REACTIONS <sup>9</sup>Be, Ni, <sup>181</sup>Ta(<sup>40</sup>Ar, X)<sup>23</sup>F / <sup>24</sup>F / <sup>25</sup>F / <sup>26</sup>F / <sup>27</sup>F / <sup>29</sup>F, E=140 MeV / nucleon; measured yields, momentum distributions for neutron-rich Fluorine isotope production. CONF Iguazu(Nuclear Physics and Applications) Proc,P213,Kwan
- <sup>29</sup>Mg      2006K055      RADIOACTIVITY <sup>27,29,31,33</sup>Mg( $\beta^-$ ) [from U(p, X)]; measured  $\beta$ -asymmetry and hfs,  $\beta$ -NMR spectra from polarized source. <sup>31</sup>Mg deduced ground-state J,  $\pi$ ,  $\mu$ , quadrupole moment. JOUR HYIND 171 167
- <sup>29</sup>Al      2006K055      RADIOACTIVITY <sup>27,29,31,33</sup>Mg( $\beta^-$ ) [from U(p, X)]; measured  $\beta$ -asymmetry and hfs,  $\beta$ -NMR spectra from polarized source. <sup>31</sup>Mg deduced ground-state J,  $\pi$ ,  $\mu$ , quadrupole moment. JOUR HYIND 171 167

**A=30**

No references found

**A=31**

- <sup>31</sup>Mg      2006K055      RADIOACTIVITY <sup>27,29,31,33</sup>Mg( $\beta^-$ ) [from U(p, X)]; measured  $\beta$ -asymmetry and hfs,  $\beta$ -NMR spectra from polarized source. <sup>31</sup>Mg deduced ground-state J,  $\pi$ ,  $\mu$ , quadrupole moment. JOUR HYIND 171 167
- <sup>31</sup>Al      2006K055      RADIOACTIVITY <sup>27,29,31,33</sup>Mg( $\beta^-$ ) [from U(p, X)]; measured  $\beta$ -asymmetry and hfs,  $\beta$ -NMR spectra from polarized source. <sup>31</sup>Mg deduced ground-state J,  $\pi$ ,  $\mu$ , quadrupole moment. JOUR HYIND 171 167

**A=32**

- <sup>32</sup>Al      2007KA18      RADIOACTIVITY <sup>32</sup>Al( $\beta^-$ ) [from <sup>40</sup>Ar fragmentation]; measured  $\beta$ -NMR spectra. <sup>32</sup>Al deduced quadrupole moment. JOUR PYLBB 647 93
- <sup>32</sup>Si      2007KA18      RADIOACTIVITY <sup>32</sup>Al( $\beta^-$ ) [from <sup>40</sup>Ar fragmentation]; measured  $\beta$ -NMR spectra. <sup>32</sup>Al deduced quadrupole moment. JOUR PYLBB 647 93
- <sup>32</sup>P      2007H008      NUCLEAR REACTIONS <sup>208</sup>Pb(<sup>36</sup>S, X)<sup>32</sup>P / <sup>33</sup>P / <sup>34</sup>P / <sup>35</sup>P / <sup>36</sup>P / <sup>37</sup>P, E=215 MeV; measured particle yields, E $\gamma$ , I $\gamma$ , (particle) $\gamma$ -coin. <sup>37</sup>P deduced levels, J,  $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313

KEYNUMBERS AND KEYWORDS

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**A=33**

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| $^{33}\text{Mg}$ | 2006K055 | RADIOACTIVITY $^{27,29,31,33}\text{Mg}(\beta^-)$ [from U(p, X)]; measured $\beta$ -asymmetry and hfs, $\beta$ -NMR spectra from polarized source. $^{31}\text{Mg}$ deduced ground-state J, $\pi$ , $\mu$ , quadrupole moment. JOUR HYIND 171 167   |
| $^{33}\text{Al}$ | 2006K055 | RADIOACTIVITY $^{27,29,31,33}\text{Mg}(\beta^-)$ [from U(p, X)]; measured $\beta$ -asymmetry and hfs, $\beta$ -NMR spectra from polarized source. $^{31}\text{Mg}$ deduced ground-state J, $\pi$ , $\mu$ , quadrupole moment. JOUR HYIND 171 167   |
| $^{33}\text{P}$  | 2007DE15 | NUCLEAR REACTIONS $^{36}\text{Cl}(\text{n}, \text{p})$ , $(\text{n}, \alpha)$ , E=0.5-250 keV; measured $\sigma$ ; deduced resonance parameters, Maxwellian-averaged cross section. Astrophysical implications discussed. JOUR PRVCA 75 034617   |
|                  | 2007H008 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}, \text{X})^{32}\text{P} / ^{33}\text{P} / ^{34}\text{P} / ^{35}\text{P} / ^{36}\text{P} / ^{37}\text{P}$ , E=215 MeV; measured particle yields, $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{37}\text{P}$ deduced levels, J, $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313 |

**A=34**

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|-----------------|----------|--|
| $^{34}\text{P}$ | 2007H008 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}, \text{X})^{32}\text{P} / ^{33}\text{P} / ^{34}\text{P} / ^{35}\text{P} / ^{36}\text{P} / ^{37}\text{P}$ , E=215 MeV; measured particle yields, $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{37}\text{P}$ deduced levels, J, $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313 |
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**A=35**

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|------------------|----------|--|
| $^{35}\text{P}$  | 2007H008 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}, \text{X})^{32}\text{P} / ^{33}\text{P} / ^{34}\text{P} / ^{35}\text{P} / ^{36}\text{P} / ^{37}\text{P}$ , E=215 MeV; measured particle yields, $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{37}\text{P}$ deduced levels, J, $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313   |
| $^{35}\text{Cl}$ | 2007DE14 | NUCLEAR REACTIONS $^{24}\text{Mg}(^{16}\text{O}, \text{n}\alpha)$ , $(^{16}\text{O}, \text{p}\alpha)$ , E=70 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (charged particle) $\gamma$ -coin. $^{35}\text{Ar}$ , $^{35}\text{Cl}$ deduced high-spin levels, J, $\pi$ , configurations, analog states, spin-orbit interaction effects, isospin symmetry features. GASP, ISIS arrays. JOUR PRVCA 75 034317 |
|                  | 2007LEZZ | NUCLEAR REACTIONS $^{24}\text{Mg}(^{16}\text{O}, \text{p}\alpha)$ , $^{24}\text{Mg}(^{16}\text{O}, \text{n}\alpha)$ , E=70 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (charged particle) $\gamma$ -coinc. $^{35}\text{Cl}$ , $^{35}\text{Ar}$ deduced high-spin levels and isospin mixing. CONF Iguazu(Nuclear Physics and Applications) Proc,P135,Lenzi  |
| $^{35}\text{Ar}$ | 2007DE14 | NUCLEAR REACTIONS $^{24}\text{Mg}(^{16}\text{O}, \text{n}\alpha)$ , $(^{16}\text{O}, \text{p}\alpha)$ , E=70 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (charged particle) $\gamma$ -coin. $^{35}\text{Ar}$ , $^{35}\text{Cl}$ deduced high-spin levels, J, $\pi$ , configurations, analog states, spin-orbit interaction effects, isospin symmetry features. GASP, ISIS arrays. JOUR PRVCA 75 034317 |
|                  | 2007LEZZ | NUCLEAR REACTIONS $^{24}\text{Mg}(^{16}\text{O}, \text{p}\alpha)$ , $^{24}\text{Mg}(^{16}\text{O}, \text{n}\alpha)$ , E=70 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (charged particle) $\gamma$ -coinc. $^{35}\text{Cl}$ , $^{35}\text{Ar}$ deduced high-spin levels and isospin mixing. CONF Iguazu(Nuclear Physics and Applications) Proc,P135,Lenzi  |

KEYNUMBERS AND KEYWORDS

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**A=36**

$^{36}\text{Mg}$	2007TAZZ	NUCLEAR REACTIONS Be, W( $^{48}\text{Ca}$ , X) $^{36}\text{Mg}$ / $^{37}\text{Mg}$ / $^{38}\text{Mg}$ / $^{41}\text{Si}$ / $^{42}\text{Si}$ / $^{43}\text{Si}$ / $^{44}\text{Si}$ , E=142 MeV / nucleon; measured production $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
$^{36}\text{P}$	2007H008	NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}$ , X) $^{32}\text{P}$ / $^{33}\text{P}$ / $^{34}\text{P}$ / $^{35}\text{P}$ / $^{36}\text{P}$ / $^{37}\text{P}$ , E=215 MeV; measured particle yields, $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{37}\text{P}$ deduced levels, J, $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313
$^{36}\text{S}$	2007DE15	NUCLEAR REACTIONS $^{36}\text{Cl}(n, p)$ , $(n, \alpha)$ , E=0.5-250 keV; measured $\sigma$ ; deduced resonance parameters, Maxwellian-averaged cross section. Astrophysical implications discussed. JOUR PRVCA 75 034617
$^{36}\text{Cl}$	2007AZ01	NUCLEAR REACTIONS Cl, K, Ca(n, X) $^{36}\text{Cl}$ , E $\leq$ 500 MeV; measured neutron-induced production rates of $^{36}\text{Cl}$ using accelerator mass spectrometry. JOUR JRNCD 272 491
$^{36}\text{Ca}$	2007D011	NUCLEAR REACTIONS $^9\text{Be}(^{37}\text{Ca}$ , X) $^{36}\text{Ca}$ , E=196 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{36}\text{Ca}$ deduced excited state energy, mirror energy differences. Fragment separator, shell-model calculations. JOUR PYLBB 647 237

**A=37**

$^{37}\text{Mg}$	2007TAZZ	NUCLEAR REACTIONS Be, W( $^{48}\text{Ca}$ , X) $^{36}\text{Mg}$ / $^{37}\text{Mg}$ / $^{38}\text{Mg}$ / $^{41}\text{Si}$ / $^{42}\text{Si}$ / $^{43}\text{Si}$ / $^{44}\text{Si}$ , E=142 MeV / nucleon; measured production $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
$^{37}\text{P}$	2007H008	NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}$ , X) $^{32}\text{P}$ / $^{33}\text{P}$ / $^{34}\text{P}$ / $^{35}\text{P}$ / $^{36}\text{P}$ / $^{37}\text{P}$ , E=215 MeV; measured particle yields, $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin. $^{37}\text{P}$ deduced levels, J, $\pi$ , configurations. Clara array. JOUR PRVCA 75 034313
$^{37}\text{Ca}$	2007RI08	ATOMIC MASSES $^{37,38}\text{Ca}$ ; measured masses using penning trap mass spectrometer. Deduced mass excess and implications on CVC and IMME. JOUR PRVCA 75 055503

**A=38**

$^{38}\text{Mg}$	2007TAZZ	NUCLEAR REACTIONS Be, W( $^{48}\text{Ca}$ , X) $^{36}\text{Mg}$ / $^{37}\text{Mg}$ / $^{38}\text{Mg}$ / $^{41}\text{Si}$ / $^{42}\text{Si}$ / $^{43}\text{Si}$ / $^{44}\text{Si}$ , E=142 MeV / nucleon; measured production $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
$^{38}\text{Ar}$	2007DEZR	NUCLEAR REACTIONS $^{41}\text{Ca}(n, \alpha)$ , E=0.6-50 keV; measured cross section and partial widths. CONF Geneva(NIC-IX) 085
$^{38}\text{Ca}$	2007GE07	ATOMIC MASSES $^{38}\text{Ca}$ ; measured mass. Penning trap, Ramsey method. JOUR PRLTA 98 162501
	2007RI08	ATOMIC MASSES $^{37,38}\text{Ca}$ ; measured masses using penning trap mass spectrometer. Deduced mass excess and implications on CVC and IMME. JOUR PRVCA 75 055503

KEYNUMBERS AND KEYWORDS

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**A=39**

- <sup>39</sup>Ar      2007BE13      RADIOACTIVITY <sup>39</sup>Ar( $\beta^-$ ); measured specific activity in natural argon. JOUR NIMAE 574 83
- <sup>39</sup>K      2007BE13      RADIOACTIVITY <sup>39</sup>Ar( $\beta^-$ ); measured specific activity in natural argon. JOUR NIMAE 574 83

**A=40**

- <sup>40</sup>Ar      2007OK01      NUCLEAR REACTIONS <sup>40</sup>Ar(p, p), (p, p'), E=25.1, 32.5, 40.7 MeV; measured  $\sigma(E, \theta)$ ,  $A_y(\theta)$ . <sup>40</sup>Ar deduced deformation parameters. Isospin dependent soft-rotator coupled-channels optical model analysis. JOUR PRVCA 75 034616

**A=41**

- <sup>41</sup>Si      2007TAZZ      NUCLEAR REACTIONS Be, W(<sup>48</sup>Ca, X)<sup>36</sup>Mg / <sup>37</sup>Mg / <sup>38</sup>Mg / <sup>41</sup>Si / <sup>42</sup>Si / <sup>43</sup>Si / <sup>44</sup>Si, E=142 MeV / nucleon; measured production  $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]

**A=42**

- <sup>42</sup>Si      2007TAZZ      NUCLEAR REACTIONS Be, W(<sup>48</sup>Ca, X)<sup>36</sup>Mg / <sup>37</sup>Mg / <sup>38</sup>Mg / <sup>41</sup>Si / <sup>42</sup>Si / <sup>43</sup>Si / <sup>44</sup>Si, E=142 MeV / nucleon; measured production  $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
- <sup>42</sup>Sc      2006GA47      NUCLEAR MOMENTS <sup>42,43,44,44m,45,45m,46</sup>Sc; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments. Collinear laser spectroscopy. JOUR HYIND 171 209
- 2007CH40      NUCLEAR REACTIONS <sup>28</sup>Si(<sup>20</sup>Ne, X)<sup>42</sup>Sc, <sup>28</sup>Si(<sup>20</sup>Ne, X)<sup>43</sup>Sc, E=84 MeV; <sup>24</sup>Mg(<sup>24</sup>Mg, X)<sup>42,43</sup>Sc, E=94 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma^-$ , (charged-particle) $\gamma^-$  coinc, angular distributions using the Gammasphere. Deduced level energies, J,  $\pi$ , high-spin and high-energy extension of level scheme. JOUR PRVCA 75 054305

**A=43**

- <sup>43</sup>Si      2007TAZZ      NUCLEAR REACTIONS Be, W(<sup>48</sup>Ca, X)<sup>36</sup>Mg / <sup>37</sup>Mg / <sup>38</sup>Mg / <sup>41</sup>Si / <sup>42</sup>Si / <sup>43</sup>Si / <sup>44</sup>Si, E=142 MeV / nucleon; measured production  $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
- <sup>43</sup>Sc      2006GA47      NUCLEAR MOMENTS <sup>42,43,44,44m,45,45m,46</sup>Sc; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments. Collinear laser spectroscopy. JOUR HYIND 171 209
- 2007CH40      NUCLEAR REACTIONS <sup>28</sup>Si(<sup>20</sup>Ne, X)<sup>42</sup>Sc, <sup>28</sup>Si(<sup>20</sup>Ne, X)<sup>43</sup>Sc, E=84 MeV; <sup>24</sup>Mg(<sup>24</sup>Mg, X)<sup>42,43</sup>Sc, E=94 MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma^-$ , (charged-particle) $\gamma^-$  coinc, angular distributions using the Gammasphere. Deduced level energies, J,  $\pi$ , high-spin and high-energy extension of level scheme. JOUR PRVCA 75 054305



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KEYNUMBERS AND KEYWORDS

**A=44**

- <sup>44</sup>Si      2007TAZZ      NUCLEAR REACTIONS Be, W(<sup>48</sup>Ca, X)<sup>36</sup>Mg / <sup>37</sup>Mg / <sup>38</sup>Mg / <sup>41</sup>Si / <sup>42</sup>Si / <sup>43</sup>Si / <sup>44</sup>Si, E=142 MeV / nucleon; measured production  $\sigma$ . PREPRINT arXiv:0705.0349v1 [nucl-ex]
- <sup>44</sup>Sc      2006GA47      NUCLEAR MOMENTS <sup>42,43,44,44m,45,45m,46</sup>Sc; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments. Collinear laser spectroscopy. JOUR HYIND 171 209
- 2007LAZZ      NUCLEAR REACTIONS <sup>45</sup>Sc(<sup>3</sup>He,  $\alpha$ )<sup>44</sup>Sc, <sup>45</sup>Sc(<sup>3</sup>He, <sup>3</sup>He), E=38 MeV; measured E $\gamma$ , I $\gamma$ . Deduced nuclear level densities and  $\gamma$ -ray strength functions. PREPRINT arXiv:0706.0533v1 [nucl-ex]
- <sup>44</sup>Ti      2007NAZZ      NUCLEAR REACTIONS <sup>40</sup>Ca( $\alpha$ ,  $\gamma$ ), E(cm)=0.6-1.2 MeV / nucleon; measured yields using accelerator mass spectroscopy. Deduced resonance strength and cross section. CONF Geneva(NIC-IX) 031
- 2007V003      NUCLEAR REACTIONS <sup>4</sup>He(<sup>40</sup>Ca,  $\gamma$ )<sup>44</sup>Ti, E=1.135 MeV / nucleon; measured yield and resonance strength at DRAGON recoil mass spectrometer. JOUR NIMBE 259 688
- 2007VOZY      NUCLEAR REACTIONS <sup>4</sup>He(<sup>40</sup>Ca,  $\gamma$ ), E=600-1200 keV / nucleon; measured prompt  $\gamma$ s in coincidence with recoils, yield using the recoil mass spectrometer DRAGON. <sup>40</sup>Ca( $\alpha$ ,  $\gamma$ ); deduced reaction rate. CONF Geneva(NIC-IX) 030

**A=45**

- <sup>45</sup>Sc      2006GA47      NUCLEAR MOMENTS <sup>42,43,44,44m,45,45m,46</sup>Sc; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments. Collinear laser spectroscopy. JOUR HYIND 171 209
- 2007LAZZ      NUCLEAR REACTIONS <sup>45</sup>Sc(<sup>3</sup>He,  $\alpha$ )<sup>44</sup>Sc, <sup>45</sup>Sc(<sup>3</sup>He, <sup>3</sup>He), E=38 MeV; measured E $\gamma$ , I $\gamma$ . Deduced nuclear level densities and  $\gamma$ -ray strength functions. PREPRINT arXiv:0706.0533v1 [nucl-ex]

**A=46**

- <sup>46</sup>Sc      2006GA47      NUCLEAR MOMENTS <sup>42,43,44,44m,45,45m,46</sup>Sc; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments. Collinear laser spectroscopy. JOUR HYIND 171 209

**A=47**

No references found

**A=48**

No references found

KEYNUMBERS AND KEYWORDS

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**A=49**

No references found

**A=50**

No references found

**A=51**

<sup>51</sup>Cr      2007MI07      NUCLEAR REACTIONS <sup>52</sup>Cr(n, n'), (n, 2n), E ≈ 3-18 MeV; measured E<sub>γ</sub>, I<sub>γ</sub>, σ. Comparison with model predictions. JOUR NUPAB 786 1

**A=52**

<sup>52</sup>Cr      2007MI07      NUCLEAR REACTIONS <sup>52</sup>Cr(n, n'), (n, 2n), E ≈ 3-18 MeV; measured E<sub>γ</sub>, I<sub>γ</sub>, σ. Comparison with model predictions. JOUR NUPAB 786 1

**A=53**

No references found

**A=54**

<sup>54</sup>Fe      2006KH14      NUCLEAR REACTIONS <sup>54,56</sup>Fe(e, e'), E=225 MeV; measured energy and angular distributions. Deduced reduced transition probabilities B(E1), B(E2), B(E3), B(E4), B(E5). JOUR BRSPE 70 1805

**A=55**

<sup>55</sup>Mn      2006UT03      NUCLEAR REACTIONS <sup>54</sup>Cr(p, γ), E=1.5-2.5 MeV; measured E<sub>γ</sub>, I<sub>γ</sub>, and partial cross sections. JOUR BRSPE 70 1859

<sup>55</sup>Fe      2007COZX      NUCLEAR REACTIONS <sup>54</sup>Fe(n, γ), E=spectrum; measured cross section using accelerator mass spectroscopy. CONF Geneva(NIC-IX) 274

<sup>55</sup>Co      2007SH15      NUCLEAR REACTIONS <sup>232</sup>Th(n, γ), (n, 2n), <sup>197</sup>Au(n, γ), (n, α), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup>Co(n, α), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup>Ta(n, γ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged σ. Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

KEYNUMBERS AND KEYWORDS

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**A=55 (continued)**

<sup>55</sup>Cu      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

**A=56**

<sup>56</sup>Mn      2007SH15      NUCLEAR REACTIONS <sup>232</sup>Th(n,  $\gamma$ ), (n, 2n), <sup>197</sup>Au(n,  $\gamma$ ), (n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup>Co(n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup>Ta(n,  $\gamma$ ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged  $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

<sup>56</sup>Fe      2006KH14      NUCLEAR REACTIONS <sup>54,56</sup>Fe(e, e'), E=225 MeV; measured energy and angular distributions. Deduced reduced transition probabilities B(E1), B(E2), B(E3), B(E4), B(E5). JOUR BRSP 70 1805

<sup>56</sup>Co      2007BL10      NUCLEAR REACTIONS <sup>12</sup>C, <sup>208</sup>Pb(n, n), E=96 MeV; Fe, Pb, U(n, pX), (n, dX), (n, tX), E=96 MeV; measured  $\sigma(\theta)$ . <sup>181</sup>Ta, W, <sup>197</sup>Au, Pb, <sup>208</sup>Pb(n, F), E=20-200 MeV; measured fission  $\sigma$ . Cu(n, X)<sup>56</sup>Co, E=50-180 MeV; measured  $\sigma$ . JOUR PRAMC 68 269

2007SH15      NUCLEAR REACTIONS <sup>232</sup>Th(n,  $\gamma$ ), (n, 2n), <sup>197</sup>Au(n,  $\gamma$ ), (n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup>Co(n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup>Ta(n,  $\gamma$ ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged  $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

<sup>56</sup>Ni      2007BL09      RADIOACTIVITY <sup>57</sup>Zn, <sup>61</sup>Ge( $\beta^+$ p) [from Ni(<sup>70</sup>Ge, X)]; measured  $\beta$ -delayed proton spectra,  $T_{1/2}$ . JOUR ZAANE 31 267

<sup>56</sup>Cu      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

<sup>56</sup>Zn      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

**A=57**

<sup>57</sup>Fe      2007C014      NUCLEAR REACTIONS <sup>59</sup>Co, <sup>93</sup>Nb(polarized p, <sup>3</sup>He), E=40-160 MeV; measured  $\sigma$ , angular distributions and analyzing powers.

2007V0ZZ      Compared results to model calculations. JOUR PRVCA 75 054617  
 NUCLEAR REACTIONS <sup>58</sup>Fe(<sup>3</sup>He, n), (<sup>3</sup>He, p), (<sup>3</sup>He,  $\alpha$ ), E=10 MeV; <sup>59</sup>Co(d, n), (d, p), (d,  $\alpha$ ), E=7.5 MeV; measured En, Ep, E $\alpha$ . <sup>57</sup>Fe, <sup>60</sup>Ni, <sup>60</sup>Co deduced level densities, Fermi-gas parameters. Comparison with model predictions. PREPRINT arXiv:0704.0916v1 [nucl-ex]

KEYNUMBERS AND KEYWORDS

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**A=57 (continued)**

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| $^{57}\text{Ni}$ | 2007GU09 | ATOMIC MASSES $^{57,60,64,65,66,67,68,69}\text{Ni}$ , $^{65,66,67,68,69,70,71,72,73,74,76}\text{Cu}$ , $^{63,64,65,68,69,70,71,72,73,74,75,76,77,78}\text{Ga}$ ; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of $N=40$ with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303   |
| $^{57}\text{Cu}$ | 2007BL09 | NUCLEAR REACTIONS $\text{Ni}(^{70}\text{Ge}, \text{X})^{55}\text{Cu} / ^{56}\text{Cu} / ^{57}\text{Cu} / ^{58}\text{Cu} / ^{56}\text{Zn} / ^{57}\text{Zn} / ^{58}\text{Zn} / ^{59}\text{Zn} / ^{60}\text{Zn} / ^{60}\text{Ga} / ^{61}\text{Ga} / ^{60}\text{Ge} / ^{61}\text{Ge} / ^{62}\text{Ge} / ^{63}\text{Ge} / ^{64}\text{As}$ , $E=71.6$ MeV / nucleon; measured production $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267 |
| $^{57}\text{Zn}$ | 2007BL09 | NUCLEAR REACTIONS $\text{Ni}(^{70}\text{Ge}, \text{X})^{55}\text{Cu} / ^{56}\text{Cu} / ^{57}\text{Cu} / ^{58}\text{Cu} / ^{56}\text{Zn} / ^{57}\text{Zn} / ^{58}\text{Zn} / ^{59}\text{Zn} / ^{60}\text{Zn} / ^{60}\text{Ga} / ^{61}\text{Ga} / ^{60}\text{Ge} / ^{61}\text{Ge} / ^{62}\text{Ge} / ^{63}\text{Ge} / ^{64}\text{As}$ , $E=71.6$ MeV / nucleon; measured production $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267 |
|                  | 2007BL09 | RADIOACTIVITY $^{57}\text{Zn}$ , $^{61}\text{Ge}(\beta^+\text{p})$ [from $\text{Ni}(^{70}\text{Ge}, \text{X})$ ]; measured $\beta$ -delayed proton spectra, $T_{1/2}$ . JOUR ZAANE 31 267  |

**A=58**

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|------------------|----------|---|
| $^{58}\text{Co}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , $E=\text{spectrum}$ ; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
| $^{58}\text{Ni}$ | 2007CE02 | NUCLEAR REACTIONS $^{58}\text{Ni}(^{110}\text{Sn}, ^{110}\text{Sn}')$ , $E=2.82$ MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coin following Coulomb excitation. $^{110}\text{Sn}$ deduced $B(E2)$ of the first excited $2^+$ state. MINIBALL array at REX-ISOLDE. JOUR PRLTA 98 172501   |
|                  | 2007FU04 | NUCLEAR REACTIONS $^{58}\text{Ni}(p, p')$ , $E=160$ MeV; measured $E_p$ , $\sigma(\theta=0^\circ)$ . $^{58}\text{Ni}(^3\text{He}, t)$ , $E=140$ MeV / nucleon; measured triton spectra, $\sigma(\theta=0^\circ)$ . $^{58}\text{Ni}$ , $^{58}\text{Cu}$ deduced $1^+$ level energies, $B(GT)$ , isospin symmetry features. Comparison with shell model predictions. JOUR PRVCA 75 034310   |
| $^{58}\text{Cu}$ | 2007BL09 | NUCLEAR REACTIONS $\text{Ni}(^{70}\text{Ge}, \text{X})^{55}\text{Cu} / ^{56}\text{Cu} / ^{57}\text{Cu} / ^{58}\text{Cu} / ^{56}\text{Zn} / ^{57}\text{Zn} / ^{58}\text{Zn} / ^{59}\text{Zn} / ^{60}\text{Zn} / ^{60}\text{Ga} / ^{61}\text{Ga} / ^{60}\text{Ge} / ^{61}\text{Ge} / ^{62}\text{Ge} / ^{63}\text{Ge} / ^{64}\text{As}$ , $E=71.6$ MeV / nucleon; measured production $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267                    |
|                  | 2007FU04 | NUCLEAR REACTIONS $^{58}\text{Ni}(p, p')$ , $E=160$ MeV; measured $E_p$ , $\sigma(\theta=0^\circ)$ . $^{58}\text{Ni}(^3\text{He}, t)$ , $E=140$ MeV / nucleon; measured triton spectra, $\sigma(\theta=0^\circ)$ . $^{58}\text{Ni}$ , $^{58}\text{Cu}$ deduced $1^+$ level energies, $B(GT)$ , isospin symmetry features. Comparison with shell model predictions. JOUR PRVCA 75 034310   |
| $^{58}\text{Zn}$ | 2007BL09 | NUCLEAR REACTIONS $\text{Ni}(^{70}\text{Ge}, \text{X})^{55}\text{Cu} / ^{56}\text{Cu} / ^{57}\text{Cu} / ^{58}\text{Cu} / ^{56}\text{Zn} / ^{57}\text{Zn} / ^{58}\text{Zn} / ^{59}\text{Zn} / ^{60}\text{Zn} / ^{60}\text{Ga} / ^{61}\text{Ga} / ^{60}\text{Ge} / ^{61}\text{Ge} / ^{62}\text{Ge} / ^{63}\text{Ge} / ^{64}\text{As}$ , $E=71.6$ MeV / nucleon; measured production $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267                    |

KEYNUMBERS AND KEYWORDS

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**A=59**

- <sup>59</sup>Fe      2007TI03      NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289
- <sup>59</sup>Co      2007S009      NUCLEAR REACTIONS <sup>59</sup>Co(<sup>6</sup>Li, <sup>6</sup>Li), (<sup>7</sup>Li, <sup>7</sup>Li), E=12-30 MeV; measured elastic  $\sigma(\theta)$ ; deduced breakup threshold anomaly. JOUR PRVCA 75 044601
- <sup>59</sup>Ni      2007RU09      NUCLEAR REACTIONS <sup>58</sup>Ni(n,  $\gamma$ ), <sup>78</sup>Se(n,  $\gamma$ ), E  $\approx$  0-100 keV; measured cross sections using accelerator mass spectrometry. Quasi-stellar neutron spectrum. JOUR NIMBE 259 683
- <sup>59</sup>Zn      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

**A=60**

- <sup>60</sup>Co      2007V0ZZ      NUCLEAR REACTIONS <sup>58</sup>Fe(<sup>3</sup>He, n), (<sup>3</sup>He, p), (<sup>3</sup>He,  $\alpha$ ), E=10 MeV; <sup>59</sup>Co(d, n), (d, p), (d,  $\alpha$ ), E=7.5 MeV; measured En, Ep, Ea. <sup>57</sup>Fe, <sup>60</sup>Ni, <sup>60</sup>Co deduced level densities, Fermi-gas parameters. Comparison with model predictions. PREPRINT arXiv:0704.0916v1 [nucl-ex]
- <sup>60</sup>Ni      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
- 2007V0ZZ      NUCLEAR REACTIONS <sup>58</sup>Fe(<sup>3</sup>He, n), (<sup>3</sup>He, p), (<sup>3</sup>He,  $\alpha$ ), E=10 MeV; <sup>59</sup>Co(d, n), (d, p), (d,  $\alpha$ ), E=7.5 MeV; measured En, Ep, Ea. <sup>57</sup>Fe, <sup>60</sup>Ni, <sup>60</sup>Co deduced level densities, Fermi-gas parameters. Comparison with model predictions. PREPRINT arXiv:0704.0916v1 [nucl-ex]
- <sup>60</sup>Zn      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267
- 2007BL09      RADIOACTIVITY <sup>57</sup>Zn, <sup>61</sup>Ge( $\beta^+$ p) [from Ni(<sup>70</sup>Ge, X)]; measured  $\beta$ -delayed proton spectra, T<sub>1/2</sub>. JOUR ZAANE 31 267
- 2007ZH16      NUCLEAR REACTIONS <sup>24</sup>Mg(<sup>36</sup>Ar, X), E=195 MeV; measured fission fragment energy spectra, angular distributions. <sup>60</sup>Zn deduced ternary cluster decay from hyperdeformed states in compound nucleus. JOUR JTPLA 85 136
- <sup>60</sup>Ga      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267
- <sup>60</sup>Ge      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

**A=61**

- <sup>61</sup>Fe 2007VE05 NUCLEAR REACTIONS <sup>9</sup>Be(<sup>64</sup>Ni, X)<sup>61</sup>Fe, E=64.6 MeV / nucleon; measured E<sub>γ</sub>, I<sub>γ</sub> and quadrupole moment of the 9 / 2<sup>+</sup> isomeric state using time dependent perturbed angular momentum technique. JOUR PRVCA 75 051302
- <sup>61</sup>Ni 2007ZH12 NUCLEAR REACTIONS <sup>64</sup>Zn(n, α), E=5.03, 5.95 MeV; measured E<sub>α</sub>, σ(θ); deduced angle-integrated σ. JOUR NSENA 156 115
- <sup>61</sup>Cu 2007HE12 NUCLEAR REACTIONS <sup>64</sup>Ni(d, 2n), E=4-20.5 MeV; Ni(d, X)<sup>61</sup>Cu, E=4-20.5 MeV; measured production cross sections using stacked-foil activation technique. JOUR NIMBE 258 308
- 2007UD02 NUCLEAR REACTIONS Zn(p, xn)<sup>66</sup>Ga / <sup>67</sup>Ga, E=4-40 MeV; Zn(p, xnp)<sup>62</sup>Zn / <sup>65</sup>Zn / <sup>69m</sup>Zn, E=10-40 MeV; Zn(p, xnα)<sup>61</sup>Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313
- <sup>61</sup>Ga 2007BL09 NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production σ. Comparison with model predictions. JOUR ZAANE 31 267
- <sup>61</sup>Ge 2007BL09 NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production σ. Comparison with model predictions. JOUR ZAANE 31 267
- 2007BL09 RADIOACTIVITY <sup>57</sup>Zn, <sup>61</sup>Ge(β<sup>+</sup>p) [from Ni(<sup>70</sup>Ge, X)]; measured β-delayed proton spectra, T<sub>1/2</sub>. JOUR ZAANE 31 267

**A=62**

- <sup>62</sup>Zn 2007UD02 NUCLEAR REACTIONS Zn(p, xn)<sup>66</sup>Ga / <sup>67</sup>Ga, E=4-40 MeV; Zn(p, xnp)<sup>62</sup>Zn / <sup>65</sup>Zn / <sup>69m</sup>Zn, E=10-40 MeV; Zn(p, xnα)<sup>61</sup>Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313
- <sup>62</sup>Ge 2007BL09 NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production σ. Comparison with model predictions. JOUR ZAANE 31 267

**A=63**

- <sup>63</sup>Ga 2007GU09 ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
- 2007SC24 ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

KEYNUMBERS AND KEYWORDS

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**A=63 (continued)**

<sup>63</sup>Ge      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267

**A=64**

<sup>64</sup>Co      2007P006      NUCLEAR REACTIONS <sup>64</sup>Ni(d, 2p), E=171 MeV; measured  $\sigma$  and angular distributions. Deduced GT strength to low lying states. JOUR PRVCA 75 054312

<sup>64</sup>Ni      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>64</sup>Cu      2007HE12      NUCLEAR REACTIONS <sup>64</sup>Ni(d, 2n), E=4-20.5 MeV; Ni(d, X)<sup>61</sup>Cu, E=4-20.5 MeV; measured production cross sections using stacked-foil activation technique. JOUR NIMBE 258 308

<sup>64</sup>Zn      2007MI12      RADIOACTIVITY <sup>64</sup>Ga( $\beta^+$ ), (EC) [from <sup>54</sup>Fe(<sup>12</sup>C, np)]; measured  $\beta$ -delayed E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>64</sup>Zn deduced levels, J,  $\pi$ , transition strengths. Comparisons with predictions of the E(5) critical point symmetry. JOUR PRVCA 75 044302

<sup>64</sup>Ga      2007CL01      ATOMIC MASSES <sup>64</sup>Ge, <sup>64</sup>Ga; measured mass. Penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 032801

2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

2007MI12      RADIOACTIVITY <sup>64</sup>Ga( $\beta^+$ ), (EC) [from <sup>54</sup>Fe(<sup>12</sup>C, np)]; measured  $\beta$ -delayed E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>64</sup>Zn deduced levels, J,  $\pi$ , transition strengths. Comparisons with predictions of the E(5) critical point symmetry. JOUR PRVCA 75 044302

2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

<sup>64</sup>Ge      2007CL01      ATOMIC MASSES <sup>64</sup>Ge, <sup>64</sup>Ga; measured mass. Penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 032801

2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

<sup>64</sup>As      2007BL09      NUCLEAR REACTIONS Ni(<sup>70</sup>Ge, X)<sup>55</sup>Cu / <sup>56</sup>Cu / <sup>57</sup>Cu / <sup>58</sup>Cu / <sup>56</sup>Zn / <sup>57</sup>Zn / <sup>58</sup>Zn / <sup>59</sup>Zn / <sup>60</sup>Zn / <sup>60</sup>Ga / <sup>61</sup>Ga / <sup>60</sup>Ge / <sup>61</sup>Ge / <sup>62</sup>Ge / <sup>63</sup>Ge / <sup>64</sup>As, E=71.6 MeV / nucleon; measured production  $\sigma$ . Comparison with model predictions. JOUR ZAANE 31 267



KEYNUMBERS AND KEYWORDS

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**A=65**

$^{65}\text{Ni}$	2007GU09	ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
$^{65}\text{Cu}$	2007DEZU	NUCLEAR REACTIONS $^{65}\text{Cu}(e, e')$ , E=150, 225 MeV; measured electron energy spectra; deduced reduced transition probability. CONF Iguazu(Nuclear Physics and Applications) Proc,P456,Denyak
	2007GU09	ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
$^{65}\text{Zn}$	2007UD02	NUCLEAR REACTIONS Zn(p, xn) <sup>66</sup> Ga / <sup>67</sup> Ga, E=4-40 MeV; Zn(p, xnp) <sup>62</sup> Zn / <sup>65</sup> Zn / <sup>69m</sup> Zn, E=10-40 MeV; Zn(p, xn $\alpha$ ) <sup>61</sup> Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313
$^{65}\text{Ga}$	2007GU09	ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
$^{65}\text{Ge}$	2007SC24	ATOMIC MASSES <sup>63,64</sup> Ga, <sup>64,65,66</sup> Ge, <sup>66,67,68</sup> As, <sup>69</sup> Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

**A=66**

$^{66}\text{Ni}$	2007GU09	ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
$^{66}\text{Cu}$	2007GU09	ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303
$^{66}\text{Ga}$	2007UD02	NUCLEAR REACTIONS Zn(p, xn) <sup>66</sup> Ga / <sup>67</sup> Ga, E=4-40 MeV; Zn(p, xnp) <sup>62</sup> Zn / <sup>65</sup> Zn / <sup>69m</sup> Zn, E=10-40 MeV; Zn(p, xn $\alpha$ ) <sup>61</sup> Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313
$^{66}\text{Ge}$	2007SC24	ATOMIC MASSES <sup>63,64</sup> Ga, <sup>64,65,66</sup> Ge, <sup>66,67,68</sup> As, <sup>69</sup> Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

KEYNUMBERS AND KEYWORDS

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**A=66 (continued)**

<sup>66</sup>As      2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

**A=67**

<sup>67</sup>Ni      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>67</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>67</sup>Ga      2007UD02      NUCLEAR REACTIONS Zn(p, xn)<sup>66</sup>Ga / <sup>67</sup>Ga, E=4-40 MeV; Zn(p, xnp)<sup>62</sup>Zn / <sup>65</sup>Zn / <sup>69m</sup>Zn, E=10-40 MeV; Zn(p, xnα)<sup>61</sup>Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313

<sup>67</sup>As      2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

**A=68**

<sup>68</sup>Ni      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>68</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

2007KE05      NUCLEAR REACTIONS <sup>68</sup>Zn(n, p), E=spectrum; measured production cross sections for ground and metastable states. Neutrons from <sup>235</sup>U fission. JOUR ARISE 65 872

<sup>68</sup>Ga      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

KEYNUMBERS AND KEYWORDS

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**A=68 (continued)**

<sup>68</sup>As      2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

**A=69**

<sup>69</sup>Ni      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>69</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>69</sup>Zn      2007UD02      NUCLEAR REACTIONS Zn(p, xn)<sup>66</sup>Ga / <sup>67</sup>Ga, E=4-40 MeV; Zn(p, xnp)<sup>62</sup>Zn / <sup>65</sup>Zn / <sup>69m</sup>Zn, E=10-40 MeV; Zn(p, xnα)<sup>61</sup>Cu, E=6-40 MeV; measured cross sections and excitation functions using stacked-foil activation technique. Compared results to calculations. JOUR NIMBE 258 313

2007VL01      NUCLEAR REACTIONS <sup>72,74</sup>Ge(n, α), <sup>72,73</sup>Ge(n, p), <sup>174,176</sup>Hf(n, 2n), E ≈ 8-11.5 MeV; measured σ. Activation method, comparison with previous results. JOUR JRNCD 272 219

<sup>69</sup>Ga      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>69</sup>Ge      2007SU07      ATOMIC MASSES <sup>69</sup>Ge, <sup>125</sup>Ce; measured masses. <sup>125</sup>Ce deduced long-lived isomeric state, excitation energy, T<sub>1/2</sub>. JOUR ZAANE 31 393

<sup>69</sup>Se      2007SC24      ATOMIC MASSES <sup>63,64</sup>Ga, <sup>64,65,66</sup>Ge, <sup>66,67,68</sup>As, <sup>69</sup>Se; measured masses using penning trap mass spectrometer. Astrophysical implications discussed. JOUR PRVCA 75 055801

**A=70**

<sup>70</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

KEYNUMBERS AND KEYWORDS

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**A=70 (continued)**

<sup>70</sup>Ga      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

**A=71**

<sup>71</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>71</sup>Zn      2007VL01      NUCLEAR REACTIONS <sup>72,74</sup>Ge(n, α), <sup>72,73</sup>Ge(n, p), <sup>174,176</sup>Hf(n, 2n), E ≈ 8-11.5 MeV; measured σ. Activation method, comparison with previous results. JOUR JRNC D 272 219

<sup>71</sup>Ga      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

**A=72**

<sup>72</sup>Cu      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

<sup>72</sup>Ga      2007GU09      ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup>Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup>Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup>Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303

2007VL01      NUCLEAR REACTIONS <sup>72,74</sup>Ge(n, α), <sup>72,73</sup>Ge(n, p), <sup>174,176</sup>Hf(n, 2n), E ≈ 8-11.5 MeV; measured σ. Activation method, comparison with previous results. JOUR JRNC D 272 219

<sup>72</sup>Ge      2007FR10      NUCLEAR REACTIONS <sup>74,76</sup>Ge, <sup>76,78</sup>Se(p, t), E=23 MeV; measured yields, cross sections and angular distributions. Compared results to DWBA calculations. JOUR PRVCA 75 051301

<sup>72</sup>Kr      2007AN12      NUCLEAR REACTIONS <sup>40</sup>Ca(<sup>40</sup>Ca, 2α), E=165 MeV; measured E<sub>γ</sub>, I<sub>γ</sub>, γγ-, (charged particle)γ-coin, DSA. <sup>72</sup>Kr deduced high-spin levels, J, π, T<sub>1/2</sub>. Gammasphere, Microball arrays. Doppler shift attenuation method, compared results to isovector mean field theory calculations. JOUR PRVCA 75 041301

KEYNUMBERS AND KEYWORDS

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**A=73**

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| $^{73}\text{Cu}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
| $^{73}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
|                  | 2007VL01 | NUCLEAR REACTIONS <sup>72,74</sup> Ge(n, $\alpha$ ), <sup>72,73</sup> Ge(n, p), <sup>174,176</sup> Hf(n, 2n), E $\approx$ 8-11.5 MeV; measured $\sigma$ . Activation method, comparison with previous results. JOUR JRNCD 272 219   |

**A=74**

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| $^{74}\text{Cu}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
| $^{74}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
| $^{74}\text{Ge}$ | 2007FR10 | NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(p, t), E=23 MeV; measured yields, cross sections and angular distributions. Compared results to DWBA calculations. JOUR PRVCA 75 051301  |
| $^{74}\text{Se}$ | 2007FR10 | NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(p, t), E=23 MeV; measured yields, cross sections and angular distributions. Compared results to DWBA calculations. JOUR PRVCA 75 051301  |
| $^{74}\text{Kr}$ | 2007CL02 | NUCLEAR REACTIONS <sup>12</sup> C( <sup>78</sup> Kr, X) <sup>76,74</sup> Kr, E=68.5 MeV / nucleon; measured E $\gamma$ , I $\gamma$ and angular distributions; <sup>74</sup> Kr, <sup>76</sup> Kr; deduced level energies, J, $\pi$ , B(E2), and shape coexistence. JOUR PRVCA 75 054313  |

**A=75**

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|------------------|----------|---|
| $^{75}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
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KEYNUMBERS AND KEYWORDS

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**A=76**

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| $^{76}\text{Cu}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
| $^{76}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
| $^{76}\text{Se}$ | 2007FR10 | NUCLEAR REACTIONS <sup>74,76</sup> Ge, <sup>76,78</sup> Se(p, t), E=23 MeV; measured yields, cross sections and angular distributions. Compared results to DWBA calculations. JOUR PRVCA 75 051301  |
| $^{76}\text{Kr}$ | 2007CL02 | NUCLEAR REACTIONS <sup>12</sup> C( <sup>78</sup> Kr, X) <sup>76,74</sup> Kr, E=68.5 MeV / nucleon; measured E $\gamma$ , I $\gamma$ and angular distributions; <sup>74</sup> Kr, <sup>76</sup> Kr; deduced level energies, J, $\pi$ , B(E2), and shape coexistence. JOUR PRVCA 75 054313  |

**A=77**

- |                  |          |   |
|------------------|----------|---|
| $^{77}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
|------------------|----------|---|

**A=78**

- |                  |          |   |
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| $^{78}\text{Ga}$ | 2007GU09 | ATOMIC MASSES <sup>57,60,64,65,66,67,68,69</sup> Ni, <sup>65,66,67,68,69,70,71,72,73,74,76</sup> Cu, <sup>63,64,65,68,69,70,71,72,73,74,75,76,77,78</sup> Ga; measured masses; analyzed the resulting mass surface for signs of magicity, compared the behavior of N=40 with that of the known magic numbers and with midshell behavior. JOUR PRVCA 75 044303 |
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**A=79**

- |                  |          |   |
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| $^{79}\text{Se}$ | 2007MAZV | NUCLEAR REACTIONS <sup>80</sup> Se( $\gamma$ , n), E=9.98-11.80 MeV; measured photoneutron cross section. Calculated stellar neutron capture rates within the framework of the Hauser-Feshbach model. CONF Geneva(NIC-IX) 239 |
|                  | 2007RU09 | NUCLEAR REACTIONS <sup>58</sup> Ni(n, $\gamma$ ), <sup>78</sup> Se(n, $\gamma$ ), E $\approx$ 0-100 keV; measured cross sections using accelerator mass spectrometry. Quasi-stellar neutron spectrum. JOUR NIMBE 259 683      |

KEYNUMBERS AND KEYWORDS

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**A=79 (continued)**

<sup>79</sup>Sr      2007KA13      NUCLEAR REACTIONS <sup>54</sup>Fe(<sup>28</sup>Si, n2p), E=90 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin, DSA. <sup>79</sup>Sr deduced high-spin levels, J,  $\pi$ , configurations, T<sub>1/2</sub>, B(E2), B(M1), transition quadrupole moments,  $\beta_2$ . Comparison with cranked mean-field and projected shell-model predictions. JOUR PRVCA 75 034311

**A=80**

No references found

**A=81**

No references found

**A=82**

No references found

**A=83**

No references found

**A=84**

No references found

**A=85**

<sup>85</sup>Sr      2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr / <sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil activation. JOUR RAACA 95 187

**A=86**

<sup>86</sup>Rb      2007TI03      NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

<sup>86</sup>Y      2006CA38      NUCLEAR MOMENTS <sup>86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102</sup>Y; measured resonance fluorescence spectra. Collinear laser spectroscopy. JOUR HYIND 171 143



KEYNUMBERS AND KEYWORDS

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**A=87**

- <sup>87</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- 2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr /  
<sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil  
activation. JOUR RAACA 95 187

**A=88**

- <sup>88</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- 2007QA03      NUCLEAR REACTIONS Sr(p, nx)<sup>88</sup>Y, E=9-14 MeV; Rb(α, nx)<sup>88</sup>Y,  
E=12-18 MeV;<sup>141</sup>Pr(p, 2n), E=15-30 MeV; Ce(<sup>3</sup>He, nx)<sup>140</sup>Nd, E=20-35  
MeV; <sup>153</sup>Eu(n, p), E=14 MeV;<sup>150</sup>Nd(α, n), E=15-25 MeV; measured  
yields, excitation function and cross section. JOUR RAACA 95 313
- 2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr /  
<sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil  
activation. JOUR RAACA 95 187
- <sup>88</sup>Zr      2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr /  
<sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil  
activation. JOUR RAACA 95 187

**A=89**

- <sup>89</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- <sup>89</sup>Zr      2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr /  
<sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil  
activation. JOUR RAACA 95 187

**A=90**

- <sup>90</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- 2007UD01      NUCLEAR REACTIONS <sup>89</sup>Y(d, X)<sup>90m</sup>Y / <sup>88</sup>Y / <sup>87m</sup>Y / <sup>87</sup>Y / <sup>88</sup>Zr /  
<sup>89</sup>Zr / <sup>85</sup>Sr, E=9-40 MeV; measured excitation functions. Stacked-foil  
activation. JOUR RAACA 95 187

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KEYNUMBERS AND KEYWORDS

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**A=91**

<sup>91</sup>Zr      2007C014      NUCLEAR REACTIONS <sup>59</sup>Co, <sup>93</sup>Nb(polarized p, <sup>3</sup>He), E=40-160 MeV; measured  $\sigma$ , angular distributions and analyzing powers. Compared results to model calculations. JOUR PRVCA 75 054617

**A=92**

<sup>92</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

**A=93**

<sup>93</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

<sup>93</sup>Tc      2007KH06      NUCLEAR REACTIONS Mo(p, xn)<sup>93</sup>Tc / <sup>93m</sup>Tc / <sup>94</sup>Tc / <sup>94m</sup>Tc,  
E=10-30 MeV; measured proton induced cross sections using stacked foil activation technique. JOUR KPSJA 50 1518

**A=94**

<sup>94</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

<sup>94</sup>Tc      2007KH06      NUCLEAR REACTIONS Mo(p, xn)<sup>93</sup>Tc / <sup>93m</sup>Tc / <sup>94</sup>Tc / <sup>94m</sup>Tc,  
E=10-30 MeV; measured proton induced cross sections using stacked foil activation technique. JOUR KPSJA 50 1518

<sup>94</sup>Ru      2007MI14      RADIOACTIVITY <sup>94</sup>Rh( $\beta^+$ ), (EC) [from <sup>58</sup>Ni(<sup>40</sup>Ca, n3p)]; measured  $\beta$ -delayed E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>94</sup>Ru deduced levels, J,  $\pi$ , configurations. Empirical shell model analysis. JOUR PRVCA 75 047302

<sup>94</sup>Rh      2007MI14      RADIOACTIVITY <sup>94</sup>Rh( $\beta^+$ ), (EC) [from <sup>58</sup>Ni(<sup>40</sup>Ca, n3p)]; measured  $\beta$ -delayed E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>94</sup>Ru deduced levels, J,  $\pi$ , configurations. Empirical shell model analysis. JOUR PRVCA 75 047302

**A=95**

<sup>95</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

KEYNUMBERS AND KEYWORDS

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**A=96**

- <sup>96</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- <sup>96</sup>Mo      2007LE05      NUCLEAR REACTIONS <sup>96</sup>Mo(n, n'γ), E=2-4 MeV; measured Eγ, Iγ,  
DSA. <sup>96</sup>Mo deduced levels, J, π, δ, T<sub>1/2</sub>, B(M1), B(E2),  
mixed-symmetry states. JOUR PRVCA 75 034318

**A=97**

- <sup>97</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143
- 2007BI14      NUCLEAR MOMENTS <sup>97m</sup>Y, <sup>176,176m</sup>Yb, <sup>178,178m</sup>Hf; measured  
isomer shifts, μ, quadrupole moments, radii; deduced hyperfine  
structure coefficients. Laser spectroscopy. JOUR PYLBB 645 330
- <sup>97</sup>Ru      2007CEZZ      NUCLEAR REACTIONS <sup>59</sup>Co(<sup>16</sup>O, X), E=400 MeV; measured Z=5-7  
fragments σ(E, θ). <sup>103</sup>Rh(<sup>12</sup>C, X)<sup>111m</sup>In / <sup>108</sup>In / <sup>105</sup>Ag / <sup>101</sup>Pd /  
<sup>102m</sup>Rh / <sup>97</sup>Ru, E ≈ 50-400 MeV; measured excitation functions.  
CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti
- 2007DI06      NUCLEAR REACTIONS Pd(p, X)<sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>100</sup>Pd / <sup>101m</sup>Rh /  
<sup>97</sup>Ru, E=5-70 MeV; measured excitation functions. Activation method.  
JOUR JRNCD 272 231

**A=98**

- <sup>98</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

**A=99**

- <sup>99</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

**A=100**

- <sup>100</sup>Y      2006CA38      NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy.  
JOUR HYIND 171 143

KEYNUMBERS AND KEYWORDS

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**A=100 (continued)**

- <sup>100</sup>Pd    2007DI06    NUCLEAR REACTIONS Pd(p, X)<sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>100</sup>Pd / <sup>101m</sup>Rh / <sup>97</sup>Ru, E=5-70 MeV; measured excitation functions. Activation method. JOUR JRNC D 272 231
- <sup>100</sup>Cd    2007KA15    RADIOACTIVITY <sup>101</sup>Sn( $\beta^+$ ), (EC), ( $\beta^+$ p) [from <sup>50</sup>Cr(<sup>58</sup>Ni, 3 $\alpha$ )]; measured  $\beta$ -delayed Ep, E $\gamma$ ,  $\gamma\gamma$ -coin, T<sub>1/2</sub>. <sup>101</sup>Sn deduced ground-state J,  $\pi$ . <sup>101</sup>In deduced transitions. Mass separator. JOUR ZAANE 31 319

**A=101**

- <sup>101</sup>Y    2006CA38    NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy. JOUR HYIND 171 143
- <sup>101</sup>Rh    2007DI06    NUCLEAR REACTIONS Pd(p, X)<sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>100</sup>Pd / <sup>101m</sup>Rh / <sup>97</sup>Ru, E=5-70 MeV; measured excitation functions. Activation method. JOUR JRNC D 272 231
- 2007TI03    NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289
- <sup>101</sup>Pd    2007CEZZ    NUCLEAR REACTIONS <sup>59</sup>Co(<sup>16</sup>O, X), E=400 MeV; measured Z=5-7 fragments  $\sigma(E, \theta)$ . <sup>103</sup>Rh(<sup>12</sup>C, X)<sup>111m</sup>In / <sup>108</sup>In / <sup>105</sup>Ag / <sup>101</sup>Pd / <sup>102m</sup>Rh / <sup>97</sup>Ru, E  $\approx$  50-400 MeV; measured excitation functions. CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti
- <sup>101</sup>In    2007KA15    RADIOACTIVITY <sup>101</sup>Sn( $\beta^+$ ), (EC), ( $\beta^+$ p) [from <sup>50</sup>Cr(<sup>58</sup>Ni, 3 $\alpha$ )]; measured  $\beta$ -delayed Ep, E $\gamma$ ,  $\gamma\gamma$ -coin, T<sub>1/2</sub>. <sup>101</sup>Sn deduced ground-state J,  $\pi$ . <sup>101</sup>In deduced transitions. Mass separator. JOUR ZAANE 31 319
- <sup>101</sup>Sn    2007KA15    RADIOACTIVITY <sup>101</sup>Sn( $\beta^+$ ), (EC), ( $\beta^+$ p) [from <sup>50</sup>Cr(<sup>58</sup>Ni, 3 $\alpha$ )]; measured  $\beta$ -delayed Ep, E $\gamma$ ,  $\gamma\gamma$ -coin, T<sub>1/2</sub>. <sup>101</sup>Sn deduced ground-state J,  $\pi$ . <sup>101</sup>In deduced transitions. Mass separator. JOUR ZAANE 31 319
- 2007KA15    NUCLEAR REACTIONS <sup>50</sup>Cr(<sup>58</sup>Ni, 3 $\alpha$ ), E=4.9, 5.2 MeV / nucleon; measured delayed Ep; deduced  $\sigma$ . Mass separator. JOUR ZAANE 31 319

**A=102**

- <sup>102</sup>Y    2006CA38    NUCLEAR MOMENTS  
86,87,87m,88,88m,89,89m,90,90m,92,93,93m,94,95,96,96m,97,97m,98,98m,99,100,101,102Y;  
measured resonance fluorescence spectra. Collinear laser spectroscopy. JOUR HYIND 171 143
- <sup>102</sup>Rh    2007CEZZ    NUCLEAR REACTIONS <sup>59</sup>Co(<sup>16</sup>O, X), E=400 MeV; measured Z=5-7 fragments  $\sigma(E, \theta)$ . <sup>103</sup>Rh(<sup>12</sup>C, X)<sup>111m</sup>In / <sup>108</sup>In / <sup>105</sup>Ag / <sup>101</sup>Pd / <sup>102m</sup>Rh / <sup>97</sup>Ru, E  $\approx$  50-400 MeV; measured excitation functions. CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti

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KEYNUMBERS AND KEYWORDS

**A=102 (continued)**

<sup>102</sup>Cd      2007B017      NUCLEAR REACTIONS <sup>92</sup>Mo(<sup>12</sup>C, 2n), E=41 MeV; <sup>94</sup>Mo(<sup>12</sup>C, 2n), E=42 MeV; measured E $\gamma$ , I $\gamma$  and lifetimes for low lying states using recoil distance Doppler shift technique. Deduced B(E2). JOUR PRVCA 75 054311

**A=103**

<sup>103</sup>Pd      2006R050      NUCLEAR REACTIONS <sup>104</sup>Pd(d, t), E=15 MeV; measured triton spectra,  $\sigma(\theta)$ . <sup>103</sup>Pd deduced low lying levels, J,  $\pi$ . JOUR BJPHE 36 1363

**A=104**

<sup>104</sup>Cd      2007B017      NUCLEAR REACTIONS <sup>92</sup>Mo(<sup>12</sup>C, 2n), E=41 MeV; <sup>94</sup>Mo(<sup>12</sup>C, 2n), E=42 MeV; measured E $\gamma$ , I $\gamma$  and lifetimes for low lying states using recoil distance Doppler shift technique. Deduced B(E2). JOUR PRVCA 75 054311

**A=105**

<sup>105</sup>Ag      2007CEZZ      NUCLEAR REACTIONS <sup>59</sup>Co(<sup>16</sup>O, X), E=400 MeV; measured Z=5-7 fragments  $\sigma(E, \theta)$ . <sup>103</sup>Rh(<sup>12</sup>C, X) <sup>111m</sup>In / <sup>108</sup>In / <sup>105</sup>Ag / <sup>101</sup>Pd / <sup>102m</sup>Rh / <sup>97</sup>Ru, E  $\approx$  50-400 MeV; measured excitation functions. CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti  
2007DI06      NUCLEAR REACTIONS Pd(p, X) <sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>100</sup>Pd / <sup>101m</sup>Rh / <sup>97</sup>Ru, E=5-70 MeV; measured excitation functions. Activation method. JOUR JRNC D 272 231  
<sup>105</sup>Sb      2007MA35      RADIOACTIVITY <sup>109</sup>I( $\alpha$ ); measured E $\alpha$ , Q $\alpha$  and branching ratio. JOUR PRLTA 98 212501

**A=106**

<sup>106</sup>Pd      2007R011      NUCLEAR REACTIONS <sup>105</sup>Pd(n,  $\gamma$ ), E=10-90 keV; measured capture cross sections relative to standard capture cross sections for <sup>197</sup>Au. JOUR KPSJA 50 1598  
<sup>106</sup>Ag      2007DI06      NUCLEAR REACTIONS Pd(p, X) <sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>100</sup>Pd / <sup>101m</sup>Rh / <sup>97</sup>Ru, E=5-70 MeV; measured excitation functions. Activation method. JOUR JRNC D 272 231

**A=107**

<sup>107</sup>In      2007GY03      NUCLEAR REACTIONS <sup>106,108</sup>Cd(p,  $\gamma$ ), E=2.4-4.7 MeV; measured activation  $\sigma$ ; deduced astrophysical S-factors. Comparison with model predictions. JOUR JPGPE 34 817

KEYNUMBERS AND KEYWORDS

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**A=107 (continued)**

- 2007GYZZ NUCLEAR REACTIONS  $^{106,108}\text{Cd}(p, \gamma)$ ,  $E=2.4-4.7$  MeV; measured  $\sigma$ ; deduced astrophysical S-factors. Comparison with model predictions. PREPRINT nucl-ex/0703045,3/29/2007
- 2007TA10 NUCLEAR REACTIONS  $\text{Cd}(d, x)^{107}\text{In} / ^{108}\text{In} / ^{108m}\text{In} / ^{109}\text{In} / ^{110}\text{In} / ^{110m}\text{In} / ^{111}\text{In} / ^{112m}\text{In} / ^{113m}\text{In} / ^{114m}\text{In} / ^{115m}\text{In} / ^{116m1}\text{In} / ^{111m}\text{Cd} / ^{115}\text{Cd} / ^{115m}\text{Cd} / ^{117}\text{Cd} / ^{117m}\text{Cd} / ^{105}\text{Ag} / ^{106m}\text{Ag} / ^{110m}\text{Ag} / ^{111}\text{Ag}$ ,  $E < 40$  MeV; measured  $E\gamma$ ,  $I\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

**A=108**

- $^{108}\text{Mo}$  2007DI09 RADIOACTIVITY  $^{252}\text{Cf}(\text{SF})$ ; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -conic using the Gammasphere array.  $^{108}\text{Mo}$  deduced level energies,  $J$ ,  $\pi$ . JOUR CPLEE 24 1517
- $^{108}\text{Pd}$  2007NA10 NUCLEAR REACTIONS  $^{107}\text{Pd}(n, \gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma$ ,  $I\gamma$ ; deduced capture  $\sigma$ . Comparison with previous results. JOUR JNSTA 44 103
- $^{108}\text{In}$  2007CEZZ NUCLEAR REACTIONS  $^{59}\text{Co}(^{16}\text{O}, X)$ ,  $E=400$  MeV; measured  $Z=5-7$  fragments  $\sigma(E, \theta)$ .  $^{103}\text{Rh}(^{12}\text{C}, X)^{111m}\text{In} / ^{108}\text{In} / ^{105}\text{Ag} / ^{101}\text{Pd} / ^{102m}\text{Rh} / ^{97}\text{Ru}$ ,  $E \approx 50-400$  MeV; measured excitation functions. CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti
- 2007TA10 NUCLEAR REACTIONS  $\text{Cd}(d, x)^{107}\text{In} / ^{108}\text{In} / ^{108m}\text{In} / ^{109}\text{In} / ^{110}\text{In} / ^{110m}\text{In} / ^{111}\text{In} / ^{112m}\text{In} / ^{113m}\text{In} / ^{114m}\text{In} / ^{115m}\text{In} / ^{116m1}\text{In} / ^{111m}\text{Cd} / ^{115}\text{Cd} / ^{115m}\text{Cd} / ^{117}\text{Cd} / ^{117m}\text{Cd} / ^{105}\text{Ag} / ^{106m}\text{Ag} / ^{110m}\text{Ag} / ^{111}\text{Ag}$ ,  $E < 40$  MeV; measured  $E\gamma$ ,  $I\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

**A=109**

- $^{109}\text{In}$  2007GY03 NUCLEAR REACTIONS  $^{106,108}\text{Cd}(p, \gamma)$ ,  $E=2.4-4.7$  MeV; measured activation  $\sigma$ ; deduced astrophysical S-factors. Comparison with model predictions. JOUR JPGPE 34 817
- 2007GYZZ NUCLEAR REACTIONS  $^{106,108}\text{Cd}(p, \gamma)$ ,  $E=2.4-4.7$  MeV; measured  $\sigma$ ; deduced astrophysical S-factors. Comparison with model predictions. PREPRINT nucl-ex/0703045,3/29/2007
- 2007TA10 NUCLEAR REACTIONS  $\text{Cd}(d, x)^{107}\text{In} / ^{108}\text{In} / ^{108m}\text{In} / ^{109}\text{In} / ^{110}\text{In} / ^{110m}\text{In} / ^{111}\text{In} / ^{112m}\text{In} / ^{113m}\text{In} / ^{114m}\text{In} / ^{115m}\text{In} / ^{116m1}\text{In} / ^{111m}\text{Cd} / ^{115}\text{Cd} / ^{115m}\text{Cd} / ^{117}\text{Cd} / ^{117m}\text{Cd} / ^{105}\text{Ag} / ^{106m}\text{Ag} / ^{110m}\text{Ag} / ^{111}\text{Ag}$ ,  $E < 40$  MeV; measured  $E\gamma$ ,  $I\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817
- $^{109}\text{I}$  2007MA35 RADIOACTIVITY  $^{109}\text{I}(\alpha)$ ; measured  $E\alpha$ ,  $Q\alpha$  and branching ratio. JOUR PRLTA 98 212501

**A=110**

- $^{110}\text{In}$  2007TA10 NUCLEAR REACTIONS Cd(d, x) $^{107}\text{In}$  /  $^{108}\text{In}$  /  $^{108m}\text{In}$  /  $^{109}\text{In}$  /  $^{110}\text{In}$  /  $^{110m}\text{In}$  /  $^{111}\text{In}$  /  $^{112m}\text{In}$  /  $^{113m}\text{In}$  /  $^{114m}\text{In}$  /  $^{115m}\text{In}$  /  $^{116m1}\text{In}$  /  $^{111m}\text{Cd}$  /  $^{115}\text{Cd}$  /  $^{115m}\text{Cd}$  /  $^{117}\text{Cd}$  /  $^{117m}\text{Cd}$  /  $^{105}\text{Ag}$  /  $^{106m}\text{Ag}$  /  $^{110m}\text{Ag}$  /  $^{111}\text{Ag}$ , E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817
- $^{110}\text{Sn}$  2007CE02 NUCLEAR REACTIONS  $^{58}\text{Ni}$ ( $^{110}\text{Sn}$ ,  $^{110}\text{Sn}'$ ), E=2.82 MeV / nucleon; measured E $\gamma$ , I $\gamma$ , (particle) $\gamma$ -coin following Coulomb excitation.  $^{110}\text{Sn}$  deduced B(E2) of the first excited 2<sup>+</sup> state. MINIBALL array at REX-ISOLDE. JOUR PRLTA 98 172501

**A=111**

- $^{111}\text{In}$  2007CEZZ NUCLEAR REACTIONS  $^{59}\text{Co}$ ( $^{16}\text{O}$ , X), E=400 MeV; measured Z=5-7 fragments  $\sigma(E, \theta)$ .  $^{103}\text{Rh}$ ( $^{12}\text{C}$ , X) $^{111m}\text{In}$  /  $^{108}\text{In}$  /  $^{105}\text{Ag}$  /  $^{101}\text{Pd}$  /  $^{102m}\text{Rh}$  /  $^{97}\text{Ru}$ , E  $\approx$  50-400 MeV; measured excitation functions. CONF Iguazu(Nuclear Physics and Applications) Proc,P207,Cerutti
- 2007TA10 NUCLEAR REACTIONS Cd(d, x) $^{107}\text{In}$  /  $^{108}\text{In}$  /  $^{108m}\text{In}$  /  $^{109}\text{In}$  /  $^{110}\text{In}$  /  $^{110m}\text{In}$  /  $^{111}\text{In}$  /  $^{112m}\text{In}$  /  $^{113m}\text{In}$  /  $^{114m}\text{In}$  /  $^{115m}\text{In}$  /  $^{116m1}\text{In}$  /  $^{111m}\text{Cd}$  /  $^{115}\text{Cd}$  /  $^{115m}\text{Cd}$  /  $^{117}\text{Cd}$  /  $^{117m}\text{Cd}$  /  $^{105}\text{Ag}$  /  $^{106m}\text{Ag}$  /  $^{110m}\text{Ag}$  /  $^{111}\text{Ag}$ , E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

**A=112**

- $^{112}\text{Cd}$  2007GA22 NUCLEAR REACTIONS  $^{112}\text{Cd}$ (n, n' $\gamma$ ), E=fast; measured E $\gamma$ , I $\gamma$ , angular distributions and lifetimes using Dopler shift attenuation technique. Deduced B(E1) and B(M1). JOUR PRVCA 75 054310
- $^{112}\text{In}$  2007TA10 NUCLEAR REACTIONS Cd(d, x) $^{107}\text{In}$  /  $^{108}\text{In}$  /  $^{108m}\text{In}$  /  $^{109}\text{In}$  /  $^{110}\text{In}$  /  $^{110m}\text{In}$  /  $^{111}\text{In}$  /  $^{112m}\text{In}$  /  $^{113m}\text{In}$  /  $^{114m}\text{In}$  /  $^{115m}\text{In}$  /  $^{116m1}\text{In}$  /  $^{111m}\text{Cd}$  /  $^{115}\text{Cd}$  /  $^{115m}\text{Cd}$  /  $^{117}\text{Cd}$  /  $^{117m}\text{Cd}$  /  $^{105}\text{Ag}$  /  $^{106m}\text{Ag}$  /  $^{110m}\text{Ag}$  /  $^{111}\text{Ag}$ , E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

**A=113**

- $^{113}\text{In}$  2007TA10 NUCLEAR REACTIONS Cd(d, x) $^{107}\text{In}$  /  $^{108}\text{In}$  /  $^{108m}\text{In}$  /  $^{109}\text{In}$  /  $^{110}\text{In}$  /  $^{110m}\text{In}$  /  $^{111}\text{In}$  /  $^{112m}\text{In}$  /  $^{113m}\text{In}$  /  $^{114m}\text{In}$  /  $^{115m}\text{In}$  /  $^{116m1}\text{In}$  /  $^{111m}\text{Cd}$  /  $^{115}\text{Cd}$  /  $^{115m}\text{Cd}$  /  $^{117}\text{Cd}$  /  $^{117m}\text{Cd}$  /  $^{105}\text{Ag}$  /  $^{106m}\text{Ag}$  /  $^{110m}\text{Ag}$  /  $^{111}\text{Ag}$ , E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817



KEYNUMBERS AND KEYWORDS

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**A=114**

<sup>114</sup>In      2007TA10      NUCLEAR REACTIONS Cd(d, x)<sup>107</sup>In / <sup>108</sup>In / <sup>108m</sup>In / <sup>109</sup>In / <sup>110</sup>In / <sup>110m</sup>In / <sup>111</sup>In / <sup>112m</sup>In / <sup>113m</sup>In / <sup>114m</sup>In / <sup>115m</sup>In / <sup>116m1</sup>In / <sup>111m</sup>Cd / <sup>115</sup>Cd / <sup>115m</sup>Cd / <sup>117</sup>Cd / <sup>117m</sup>Cd / <sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>110m</sup>Ag / <sup>111</sup>Ag, E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

**A=115**

<sup>115</sup>Ru      2007KU06      RADIOACTIVITY <sup>115</sup>Ru( $\beta^-$ ) [from <sup>238</sup>U(p, F)]; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>115</sup>Rh deduced levels, J,  $\pi$ . Level systematics in neighboring nuclides discussed. JOUR ZAANE 31 263

<sup>115</sup>Rh      2007KU06      RADIOACTIVITY <sup>115</sup>Ru( $\beta^-$ ) [from <sup>238</sup>U(p, F)]; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>115</sup>Rh deduced levels, J,  $\pi$ . Level systematics in neighboring nuclides discussed. JOUR ZAANE 31 263

<sup>115</sup>Cd      2006VI11      NUCLEAR REACTIONS <sup>114</sup>Cd(n,  $\gamma$ ), <sup>116</sup>Sn(n,  $\gamma$ ), <sup>124</sup>Te(n,  $\gamma$ ), E=reactor spectrum; measured x-ray spectra. deduced K-shell internal conversion coefficients. JOUR BRSPPE 70 1842

<sup>115</sup>In      2007TA10      NUCLEAR REACTIONS Cd(d, x)<sup>107</sup>In / <sup>108</sup>In / <sup>108m</sup>In / <sup>109</sup>In / <sup>110</sup>In / <sup>110m</sup>In / <sup>111</sup>In / <sup>112m</sup>In / <sup>113m</sup>In / <sup>114m</sup>In / <sup>115m</sup>In / <sup>116m1</sup>In / <sup>111m</sup>Cd / <sup>115</sup>Cd / <sup>115m</sup>Cd / <sup>117</sup>Cd / <sup>117m</sup>Cd / <sup>105</sup>Ag / <sup>106m</sup>Ag / <sup>110m</sup>Ag / <sup>111</sup>Ag, E < 40 MeV; measured E $\gamma$ , I $\gamma$ , integral yields, excitation functions and cross sections. Compared results to model calculations. JOUR NIMBE 259 817

<sup>115</sup>Sb      2007SKZZ      NUCLEAR REACTIONS <sup>115,116,120</sup>Sn(p, n), E=4.5-9.0 MeV; measured cross sections using activation technique. Compared cross sections, S-factors and reaction rates to Hauser-Feshbach statistical theory predictions. CONF Geneva(NIC-IX) 204

**A=116**

<sup>116</sup>Sb      2007SKZZ      NUCLEAR REACTIONS <sup>115,116,120</sup>Sn(p, n), E=4.5-9.0 MeV; measured cross sections using activation technique. Compared cross sections, S-factors and reaction rates to Hauser-Feshbach statistical theory predictions. CONF Geneva(NIC-IX) 204

**A=117**

<sup>117</sup>Sn      2006VI11      NUCLEAR REACTIONS <sup>114</sup>Cd(n,  $\gamma$ ), <sup>116</sup>Sn(n,  $\gamma$ ), <sup>124</sup>Te(n,  $\gamma$ ), E=reactor spectrum; measured x-ray spectra. deduced K-shell internal conversion coefficients. JOUR BRSPPE 70 1842

**A=118**

No references found

KEYNUMBERS AND KEYWORDS

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**A=119**

No references found

**A=120**

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| $^{120}\text{Sn}$ | 2007BA43 | RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$ ; measured $E\gamma$ , $I\gamma$ . Deduced limits for $(0\nu+2\nu)$ and $(0\nu)$ $T_{1/2}$ . JOUR JPGPE 34 1721  |
| $^{120}\text{Sb}$ | 2007SKZZ | NUCLEAR REACTIONS $^{115,116,120}\text{Sn}(p, n)$ , $E=4.5\text{-}9.0$ MeV; measured cross sections using activation technique. Compared cross sections, S-factors and reaction rates to Hauser-Feshbach statistical theory predictions. CONF Geneva(NIC-IX) 204 |
| $^{120}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173                     |
|                   | 2007BA43 | RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$ ; measured $E\gamma$ , $I\gamma$ . Deduced limits for $(0\nu+2\nu)$ and $(0\nu)$ $T_{1/2}$ . JOUR JPGPE 34 1721  |

**A=121**

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| $^{121}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173   |
|                   | 2007ME09 | NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501 |

**A=122**

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| $^{122}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173   |
|                   | 2007ME09 | NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501 |

**A=123**

- <sup>123</sup>Te 2006SI40 NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173
- 2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=124**

- <sup>124</sup>Te 2006SI40 NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173
- 2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=125**

- <sup>125</sup>Te 2006SI40 NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173
- 2006VI11 NUCLEAR REACTIONS <sup>114</sup>Cd(n,  $\gamma$ ), <sup>116</sup>Sn(n,  $\gamma$ ), <sup>124</sup>Te(n,  $\gamma$ ), E=reactor spectrum; measured x-ray spectra. deduced K-shell internal conversion coefficients. JOUR BRSPE 70 1842
- 2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501
- <sup>125</sup>Ce 2007SU07 ATOMIC MASSES <sup>69</sup>Ge, <sup>125</sup>Ce; measured masses. <sup>125</sup>Ce deduced long-lived isomeric state, excitation energy, T<sub>1/2</sub>. JOUR ZAANE 31 393

KEYNUMBERS AND KEYWORDS

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**A=126**

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| $^{126}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173   |
|                   | 2007ME09 | NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501 |
| $^{126}\text{Cs}$ | 2007WA09 | NUCLEAR REACTIONS $^{116}\text{Cd}(^{14}\text{N}, 4n)$ , E=65 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{126}\text{Cs}$ deduced high-spin levels, J, $\pi$ , configurations. JOUR PRVCA 75 037302  |

**A=127**

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|-------------------|----------|--|
| $^{127}\text{Sn}$ | 2007AT03 | NUCLEAR REACTIONS $^{136}\text{Xe}(\text{Be}, x)^{127}\text{Sn}$ , E=600 MeV / nucleon; measured g-factor for 19 / $2^+$ isomer using time-differential perturbed angular distribution method. JOUR PPNPD 59 355   |
| $^{127}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173   |
|                   | 2007ME09 | NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501 |

**A=128**

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|-------------------|----------|--|
| $^{128}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173 |
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**A=129**

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|-------------------|----------|--|
| $^{129}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173 |
| $^{129}\text{Xe}$ | 2007KI06 | NUCLEAR MOMENTS $^{129}\text{Xe}$ ; measured precession, transverse relaxation of polarized gas in weak magnetic fields. JOUR ZDDNE 42 197   |

KEYNUMBERS AND KEYWORDS

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**A=130**

<sup>130</sup>Te      2006SI40      NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured  
hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser  
spectroscopy, comparison with model predictions. JOUR HYIND 171  
173

**A=131**

<sup>131</sup>Te      2006SI40      NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured  
hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser  
spectroscopy, comparison with model predictions. JOUR HYIND 171  
173

**A=132**

<sup>132</sup>Te      2006SI40      NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured  
hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser  
spectroscopy, comparison with model predictions. JOUR HYIND 171  
173

**A=133**

<sup>133</sup>Te      2006SI40      NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured  
hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser  
spectroscopy, comparison with model predictions. JOUR HYIND 171  
173

**A=134**

<sup>134</sup>Te      2006SI40      NUCLEAR MOMENTS  
120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured  
hfs, isotope shifts; deduced  $\mu$ , quadrupole moments, radii. Laser  
spectroscopy, comparison with model predictions. JOUR HYIND 171  
173

KEYNUMBERS AND KEYWORDS

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**A=135**

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| $^{135}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173 |
|                   | 2007F002 | RADIOACTIVITY $^{135,136}\text{Te}(\beta^-)$ ; measured $E\beta$ , $E\gamma$ , $\beta\gamma$ -coinc. Deduced $\beta$ endpoint energies and mass excess. JOUR PRVCA 75 054308   |
| $^{135}\text{I}$  | 2007F002 | RADIOACTIVITY $^{135,136}\text{Te}(\beta^-)$ ; measured $E\beta$ , $E\gamma$ , $\beta\gamma$ -coinc. Deduced $\beta$ endpoint energies and mass excess. JOUR PRVCA 75 054308   |
| $^{135}\text{Xe}$ | 2007F003 | RADIOACTIVITY $^{135}\text{Xe}$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coinc. Deduced high spin level structure, $J$ , $\pi$ . JOUR PRVCA 75 054322  |
|                   | 2007F003 | NUCLEAR REACTIONS $^{136}\text{Xe}(n, 2n\gamma)$ , $E$ not given; measured excitation functions. JOUR PRVCA 75 054322  |

**A=136**

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|-------------------|----------|--|
| $^{136}\text{Te}$ | 2006SI40 | NUCLEAR MOMENTS<br>120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136Te; measured hfs, isotope shifts; deduced $\mu$ , quadrupole moments, radii. Laser spectroscopy, comparison with model predictions. JOUR HYIND 171 173 |
|                   | 2007F002 | RADIOACTIVITY $^{135,136}\text{Te}(\beta^-)$ ; measured $E\beta$ , $E\gamma$ , $\beta\gamma$ -coinc. Deduced $\beta$ endpoint energies and mass excess. JOUR PRVCA 75 054308   |
| $^{136}\text{I}$  | 2007F002 | RADIOACTIVITY $^{135,136}\text{Te}(\beta^-)$ ; measured $E\beta$ , $E\gamma$ , $\beta\gamma$ -coinc. Deduced $\beta$ endpoint energies and mass excess. JOUR PRVCA 75 054308   |

**A=137**

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|-------------------|----------|--|
| $^{137}\text{Cs}$ | 2007LI21 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{137,138}\text{Cs}$ deduced high-spin levels, $J$ , $\pi$ , configurations. Gammasphere array, comparison with shell model predictions. JOUR PRVCA 75 044314 |
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**A=138**

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| $^{138}\text{I}$  | 2007RZ01 | RADIOACTIVITY $^{138}\text{I}$ [from $^{248}\text{Cm}(\text{SF})$ ]; measured prompt and delayed $E\gamma$ , $I\gamma$ . Deduced level energies, $J$ , $\pi$ . JOUR PRVCA 75 054319  |
| $^{138}\text{Cs}$ | 2007LI21 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$ ; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{137,138}\text{Cs}$ deduced high-spin levels, $J$ , $\pi$ , configurations. Gammasphere array, comparison with shell model predictions. JOUR PRVCA 75 044314 |
| $^{138}\text{Pr}$ | 2007LI12 | NUCLEAR REACTIONS $^{128}\text{Te}(^{14}\text{N}, 4n)$ , $E=64$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{138}\text{Pr}$ deduced high-spin levels, $J$ , $\pi$ , configurations. JOUR PRVCA 75 034304   |

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KEYNUMBERS AND KEYWORDS

**A=139**

<sup>139</sup>La 2007SC18 NUCLEAR REACTIONS <sup>139</sup>La, <sup>141</sup>Pr( $\gamma$ ,  $\gamma'$ ), E=4.1 MeV  
bremsstrahlung; measured E $\gamma$ , I $\gamma$ . <sup>139</sup>La, <sup>141</sup>Pr deduced level energies,  
widths, B(E1), B(M1), dipole strength distributions, blocking effect.  
JOUR PRVCA 75 044313

**A=140**

<sup>140</sup>La 2007MAZW NUCLEAR REACTIONS <sup>139</sup>La(n,  $\gamma$ ), <sup>151</sup>Sm(n,  $\gamma$ ), E < 1 MeV;  
measured yields, cross sections. CONF Geneva(NIC-IX) 138  
2007TE03 NUCLEAR REACTIONS <sup>139</sup>La(n,  $\gamma$ ), E=0.6-9000 eV; measured  
capture  $\sigma$ ; deduced resonance parameters, level densities, Maxwellian  
averaged  $\sigma$ . Astrophysical implications discussed. JOUR PRVCA 75  
035807

<sup>140</sup>Ce 2007SA25 RADIOACTIVITY <sup>140</sup>Ce( $\beta^-$ ); measured E $\gamma$ , I $\gamma$ , angular anisotropy  
for source implanted in highly oriented pyrolytic graphite.  
Time-differential perturbed angular correlation. JOUR JRNCD 272  
665

<sup>140</sup>Pr 2007SA25 RADIOACTIVITY <sup>140</sup>Ce( $\beta^-$ ); measured E $\gamma$ , I $\gamma$ , angular anisotropy  
for source implanted in highly oriented pyrolytic graphite.  
Time-differential perturbed angular correlation. JOUR JRNCD 272  
665

<sup>140</sup>Nd 2007QA03 NUCLEAR REACTIONS Sr(p, nx)<sup>88</sup>Y, E=9-14 MeV; Rb( $\alpha$ , nx)<sup>88</sup>Y,  
E=12-18 MeV; <sup>141</sup>Pr(p, 2n), E=15-30 MeV; Ce(<sup>3</sup>He, nx)<sup>140</sup>Nd, E=20-35  
MeV; <sup>153</sup>Eu(n, p), E=14 MeV; <sup>150</sup>Nd( $\alpha$ , n), E=15-25 MeV; measured  
yields, excitation function and cross section. JOUR RAACA 95 313  
2007ZH23 NUCLEAR REACTIONS Ce(<sup>3</sup>He, nx), E < 33.5 MeV; <sup>141</sup>Pr(p, 2n),  
E=16.2-18.6 MeV; measured yields. JOUR RAACA 95 319

<sup>140</sup>Gd 20060L09 NUCLEAR REACTIONS <sup>92</sup>Mo(<sup>54</sup>Fe, 2p $\alpha$ ), E=240 MeV; measured  
E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>140</sup>GD deduced high-spin levels J,  $\pi$ . JOUR BJPHE  
36 1371

**A=141**

<sup>141</sup>Pr 2007SC18 NUCLEAR REACTIONS <sup>139</sup>La, <sup>141</sup>Pr( $\gamma$ ,  $\gamma'$ ), E=4.1 MeV  
bremsstrahlung; measured E $\gamma$ , I $\gamma$ . <sup>139</sup>La, <sup>141</sup>Pr deduced level energies,  
widths, B(E1), B(M1), dipole strength distributions, blocking effect.  
JOUR PRVCA 75 044313

**A=142**

No references found

**A=143**

No references found



KEYNUMBERS AND KEYWORDS

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**A=144**

No references found

**A=145**

No references found

**A=146**

No references found

**A=147**

No references found

**A=148**

No references found

**A=149**

No references found

**A=150**

No references found

**A=151**

$^{151}\text{Tb}$	2007BE20	NUCLEAR REACTIONS $^{130}\text{Te}(^{27}\text{Al}, 6n)$ , $E=155$ MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -coin. $^{151}\text{Tb}$ deduced unresolved superdeformed bands, decay-out features. Euroball IV array, comparison with band mixing model predictions. JOUR PRVCA 75 047301
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**A=152**

$^{152}\text{Sm}$	2007MAZW	NUCLEAR REACTIONS $^{139}\text{La}(n, \gamma)$ , $^{151}\text{Sm}(n, \gamma)$ , $E < 1$ MeV; measured yields, cross sections. CONF Geneva(NIC-IX) 138
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KEYNUMBERS AND KEYWORDS

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**A=153**

- <sup>153</sup>Sm      2007KA16      NUCLEAR REACTIONS <sup>152</sup>Sm(n,  $\gamma$ ), E=thermal; measured capture  $\sigma$ ; deduced resonance integral. Comparison with previous results. JOUR ANEND 34 188
- 2007QA03      NUCLEAR REACTIONS Sr(p, nx)<sup>88</sup>Y, E=9-14 MeV; Rb( $\alpha$ , nx)<sup>88</sup>Y, E=12-18 MeV; <sup>141</sup>Pr(p, 2n), E=15-30 MeV; Ce(<sup>3</sup>He, nx)<sup>140</sup>Nd, E=20-35 MeV; <sup>153</sup>Eu(n, p), E=14 MeV; <sup>150</sup>Nd( $\alpha$ , n), E=15-25 MeV; measured yields, excitation function and cross section. JOUR RAACA 95 313

**A=154**

No references found

**A=155**

No references found

**A=156**

No references found

**A=157**

- <sup>157</sup>Gd      2007CH37      NUCLEAR REACTIONS <sup>156,158</sup>Gd(n,  $\gamma$ ), E=10-90 keV; measured capture cross sections relative to standard capture cross sections for <sup>197</sup>Au. JOUR KPSJA 50 1592

**A=158**

No references found

**A=159**

- <sup>159</sup>Gd      2007CH37      NUCLEAR REACTIONS <sup>156,158</sup>Gd(n,  $\gamma$ ), E=10-90 keV; measured capture cross sections relative to standard capture cross sections for <sup>197</sup>Au. JOUR KPSJA 50 1592

**A=160**

No references found

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KEYNUMBERS AND KEYWORDS

**A=161**

No references found

**A=162**

No references found

**A=163**

- $^{163}\text{Tm}$     2007PA22    NUCLEAR REACTIONS  $^{130}\text{Te}(^{37}\text{Cl}, 4n)$ ,  $E=170$  MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{163}\text{Tm}$  deduced high-spin levels, J,  $\pi$ , triaxial superdeformed bands, B(M1) / B(E2). Gammasphere array, potential energy surface calculations. JOUR PYLBB 647 243
- 2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829
- 2007WAZZ    NUCLEAR REACTIONS  $^{130}\text{Te}(^{37}\text{Cl}, 4n)$ ,  $E=165$  MeV; measured  $E\gamma$ ,  $I\gamma$  using Gammasphere. Deduced quadrupole transition moments for two triaxial strongly deformed bands using doppler shift attenuation method. PREPRINT arXiv:0705.1987v1 [nucl-ex]

**A=164**

- $^{164}\text{Lu}$     2007BR09    NUCLEAR REACTIONS  $^{121}\text{Sb}(^{48}\text{Ca}, 5n)$ ,  $E=215$  MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{164}\text{Lu}$  deduced high-spin levels, J,  $\pi$ , triaxial superdeformed bands, octupole vibration. Gammasphere array. JOUR PRVCA 75 044306

**A=165**

- $^{165}\text{Tm}$     2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

**A=166**

- $^{166}\text{Ho}$     2007R010    NUCLEAR REACTIONS  $^{165}\text{Ho}(n, \gamma)$ ,  $E=10-90$  keV; measured capture cross sections relative to standard capture cross sections for  $^{197}\text{Au}$ . JOUR KPSJA 50 1494
- $^{166}\text{Tm}$     2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

**A=167**

- $^{167}\text{Tm}$     2007TA09    NUCLEAR REACTIONS  $^{169}\text{Tm}(d, 2n)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions; deduced integral yield.  $^{169}\text{Tm}(d, 2np)$ ,  $(d, 3np)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions. Stacked foil activation, comparison with model predictions. JOUR ARISE 65 663
- 2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

**A=168**

- $^{168}\text{Tm}$     2007CAZW    NUCLEAR REACTIONS  $^{164}\text{Dy}(^{11}\text{B}, 3n\alpha)$ ,  $E=65$  MeV; measured  $E\gamma$ ,  $I\gamma$ .  $^{168}\text{Tm}$  deduced high spin levels,  $J$ ,  $\pi$ . GASP array. CONF Iguazu(Nuclear Physics and Applications) Proc,P446,Cardona
- 2007TA09    NUCLEAR REACTIONS  $^{169}\text{Tm}(d, 2n)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions; deduced integral yield.  $^{169}\text{Tm}(d, 2np)$ ,  $(d, 3np)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions. Stacked foil activation, comparison with model predictions. JOUR ARISE 65 663
- 2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

**A=169**

- $^{169}\text{Yb}$     2007TA09    NUCLEAR REACTIONS  $^{169}\text{Tm}(d, 2n)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions; deduced integral yield.  $^{169}\text{Tm}(d, 2np)$ ,  $(d, 3np)$ ,  $E \approx 4\text{-}20.5$  MeV; measured excitation functions. Stacked foil activation, comparison with model predictions. JOUR ARISE 65 663
- $^{169}\text{Ir}$     2007SA33    NUCLEAR REACTIONS  $^{112}\text{Sn}(^{60}\text{Ni}, 2np)$ ,  $E=266$  MeV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -, (particle) $\gamma$ -coinc. Deduced level energies,  $J$ ,  $\pi$ . JOUR PRVCA 75 054321

**A=170**

- $^{170}\text{Tm}$     2007TA11    NUCLEAR REACTIONS  $\text{Er}(d, x)^{163}\text{Tm} / ^{165}\text{Tm} / ^{166}\text{Tm} / ^{167}\text{Tm} / ^{168}\text{Tm} / ^{170}\text{Tm} / ^{171}\text{Er}$ ,  $E < 40$  MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

KEYNUMBERS AND KEYWORDS

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**A=171**

- <sup>171</sup>Er    2007TA11    NUCLEAR REACTIONS Er(d, x)<sup>163</sup>Tm / <sup>165</sup>Tm / <sup>166</sup>Tm / <sup>167</sup>Tm / <sup>168</sup>Tm / <sup>170</sup>Tm / <sup>171</sup>Er, E < 40 MeV; measured excitation functions and cross section using stacked foil activation technique. Compared results to model calculations. JOUR NIMBE 259 829

**A=172**

No references found

**A=173**

- <sup>173</sup>Lu    2007TI03    NUCLEAR REACTIONS Pb, <sup>208</sup>Pb, <sup>209</sup>Bi(p, X)<sup>7</sup>Be / <sup>24</sup>Na / <sup>59</sup>Fe / <sup>86</sup>Rb / <sup>101m</sup>Rh / <sup>173</sup>Lu / <sup>190</sup>Ir / <sup>192</sup>Ir / <sup>196</sup>Au / <sup>199</sup>Tl / <sup>200</sup>Tl / <sup>203</sup>Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289
- <sup>173</sup>Hf    2007VL01    NUCLEAR REACTIONS <sup>72,74</sup>Ge(n, α), <sup>72,73</sup>Ge(n, p), <sup>174,176</sup>Hf(n, 2n), E ≈ 8-11.5 MeV; measured σ. Activation method, comparison with previous results. JOUR JRNCD 272 219

**A=174**

- <sup>174</sup>Yb    2007KA27    RADIOACTIVITY <sup>178</sup>Hf(α); measured partial half lives and hindrance factors. JOUR PRVCA 75 057301
- <sup>174</sup>Re    2007ZH21    NUCLEAR REACTIONS <sup>152</sup>Sm(<sup>27</sup>Al, 5n), E=140 MeV; measured Eγ, Iγ, γγ-coin. <sup>174</sup>Re deduced high-spin levels, J, π, identified new rotational band. JOUR CPLEE 24 1203

**A=175**

- <sup>175</sup>Hf    2007VL01    NUCLEAR REACTIONS <sup>72,74</sup>Ge(n, α), <sup>72,73</sup>Ge(n, p), <sup>174,176</sup>Hf(n, 2n), E ≈ 8-11.5 MeV; measured σ. Activation method, comparison with previous results. JOUR JRNCD 272 219

**A=176**

- <sup>176</sup>Yb    2007BI14    NUCLEAR MOMENTS <sup>97m</sup>Y, <sup>176,176m</sup>Yb, <sup>178,178m</sup>Hf; measured isomer shifts, μ, quadrupole moments, radii; deduced hyperfine structure coefficients. Laser spectroscopy. JOUR PYLBB 645 330
- <sup>176</sup>Lu    2007WA08    NUCLEAR REACTIONS <sup>176</sup>Lu(γ, γ'), E=2.3, 3.1 MeV bremsstrahlung; measured Eγ, Iγ. <sup>176</sup>Lu deduced transitions, B(M1), B(E1), strength distribution. JOUR PRVCA 75 034301

KEYNUMBERS AND KEYWORDS

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**A=177**

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|-------------------|----------|---|
| $^{177}\text{Lu}$ | 2007WIZZ | NUCLEAR REACTIONS $^{176m}\text{Lu}(n, \gamma)$ , E=spectrum; measured cross section using activation technique. CONF Geneva(NIC-IX) 186  |
| $^{177}\text{Ta}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , (n, 2n), $^{197}\text{Au}(n, \gamma)$ , (n, $\alpha$ ), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), $^{59}\text{Co}(n, \alpha)$ , (n, 2n), (n, 4n), (n, 5n), $^{181}\text{Ta}(n, \gamma)$ , (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |

**A=178**

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|-------------------|----------|---|
| $^{178}\text{Hf}$ | 2007BI14 | NUCLEAR MOMENTS $^{97m}\text{Y}$ , $^{176,176m}\text{Yb}$ , $^{178,178m}\text{Hf}$ ; measured isomer shifts, $\mu$ , quadrupole moments, radii; deduced hyperfine structure coefficients. Laser spectroscopy. JOUR PYLBB 645 330  |
|                   | 2007HA05 | NUCLEAR REACTIONS $^{178}\text{Hf}(^{136}\text{Xe}, ^{136}\text{Xe}')$ , E=650 MeV; measured prompt and delayed $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (particle) $\gamma$ -coin following Coulomb excitation. $\text{Ta}(^{178}\text{Hf}, ^{178}\text{Hf}')$ , E $\approx$ 700-850 MeV; measured isomer production $\sigma$ . $^{178}\text{Hf}$ deduced levels, J, $\pi$ , rotational bands, transition matrix elements, K-mixing features. Gammasphere, Chico arrays. JOUR PRVCA 75 034308 |
|                   | 2007KA27 | RADIOACTIVITY $^{178}\text{Hf}(\alpha)$ ; measured partial half lives and hindrance factors. JOUR PRVCA 75 057301   |
|                   | 2007LA14 | RADIOACTIVITY $^{178}\text{Ta}(\text{EC})$ [from $^{179}\text{Hf}(\text{p}, 2\text{n})$ ]; measured $E\gamma$ , $I\gamma$ and internal conversion electron spectra. $^{178}\text{Hf}$ deduced energy of the $8_2^-$ level. JOUR BRSP 71 441   |
| $^{178}\text{Ta}$ | 2007LA14 | RADIOACTIVITY $^{178}\text{Ta}(\text{EC})$ [from $^{179}\text{Hf}(\text{p}, 2\text{n})$ ]; measured $E\gamma$ , $I\gamma$ and internal conversion electron spectra. $^{178}\text{Hf}$ deduced energy of the $8_2^-$ level. JOUR BRSP 71 441   |
|                   | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , (n, 2n), $^{197}\text{Au}(n, \gamma)$ , (n, $\alpha$ ), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), $^{59}\text{Co}(n, \alpha)$ , (n, 2n), (n, 4n), (n, 5n), $^{181}\text{Ta}(n, \gamma)$ , (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307   |

**A=179**

No references found

**A=180**

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|-------------------|----------|--|
| $^{180}\text{Hf}$ | 2007NG03 | NUCLEAR REACTIONS $^{180}\text{Hf}(^{136}\text{Xe}, \text{X})^{180}\text{Hf} / ^{182}\text{Hf}$ , E=750 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (particle) $\gamma$ -coin. $^{180,182}\text{Hf}$ deduced levels, J, $\pi$ , rotational and vibrational bands features. Gammasphere, Chico arrays. JOUR PRVCA 75 034305 |
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KEYNUMBERS AND KEYWORDS

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**A=180 (continued)**

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|                   | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
| $^{180}\text{Ta}$ | 2007GOZZ | NUCLEAR REACTIONS $^{181}\text{Ta}(\gamma, n)$ , E=9-13 MeV; measured partial and total photoneutron cross sections. CONF Geneva(NIC-IX) 253  |
|                   | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |

**A=181**

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|------------------|----------|--|
| $^{181}\text{W}$ | 2007KAZY | NUCLEAR REACTIONS $^{180}\text{W}(n, \gamma)$ , E=thermal; measured capture $\sigma$ . $^{180,184,186}\text{W}(n, \gamma)$ , E=thermal; measured delayed $E\gamma$ , $I\gamma$ ; deduced production rate. Use of $^{181}\text{W}$ as neutrino source discussed. PREPRINT arXiv:0704.3042v2 [nucl-ex] |
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**A=182**

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|-------------------|----------|---|
| $^{182}\text{Hf}$ | 2007NG03 | NUCLEAR REACTIONS $^{180}\text{Hf}(^{136}\text{Xe}, X)^{180}\text{Hf} / ^{182}\text{Hf}$ , E=750 MeV; measured $E\gamma$ , $I\gamma$ , $\gamma\gamma$ -, (particle) $\gamma$ -coin. $^{180,182}\text{Hf}$ deduced levels, J, $\pi$ , rotational and vibrational bands features. Gammasphere, Chico arrays. JOUR PRVCA 75 034305   |
| $^{182}\text{Ta}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
| $^{182}\text{Pb}$ | 2006SE18 | NUCLEAR MOMENTS $^{182,183,184,185,186,187,188,189,190}\text{Pb}$ ; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225   |

**A=183**

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| $^{183}\text{Pb}$ | 2006SE18 | NUCLEAR MOMENTS $^{182,183,184,185,186,187,188,189,190}\text{Pb}$ ; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225 |
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**A=184**

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| $^{184}\text{Os}$ | 2006AV09 | NUCLEAR MOMENTS $^{184,186,187,188,189,190,192}\text{Os}$ ; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217 |
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KEYNUMBERS AND KEYWORDS

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**A=184 (continued)**

<sup>184</sup>Pb      2006SE18      NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=185**

<sup>185</sup>W      2007KAZY      NUCLEAR REACTIONS <sup>180</sup>W(n,  $\gamma$ ), E=thermal; measured capture  $\sigma$ . <sup>180,184,186</sup>W(n,  $\gamma$ ), E=thermal; measured delayed E $\gamma$ , I $\gamma$ ; deduced production rate. Use of <sup>181</sup>W as neutrino source discussed. PREPRINT arXiv:0704.3042v2 [nucl-ex]

<sup>185</sup>Pb      2006SE18      NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=186**

<sup>186</sup>Os      2006AV09      NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup>Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217

<sup>186</sup>Pb      2006SE18      NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=187**

<sup>187</sup>W      2007KAZY      NUCLEAR REACTIONS <sup>180</sup>W(n,  $\gamma$ ), E=thermal; measured capture  $\sigma$ . <sup>180,184,186</sup>W(n,  $\gamma$ ), E=thermal; measured delayed E $\gamma$ , I $\gamma$ ; deduced production rate. Use of <sup>181</sup>W as neutrino source discussed. PREPRINT arXiv:0704.3042v2 [nucl-ex]

<sup>187</sup>Os      2006AV09      NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup>Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217

2007M017      NUCLEAR REACTIONS <sup>186,187,188</sup>Os(n,  $\gamma$ ), E=1 eV to 1 MeV; measured cross section at the CERN n\_TOF facility. <sup>187</sup>Os(n, n'), E=30 keV; measured inelastic scattering cross section. JOUR PPNPD 59 165

2007SEZY      NUCLEAR REACTIONS <sup>186,187,189</sup>Os(n,  $\gamma$ ), E=low; measured prompt  $\gamma$  ray, cross sections. <sup>187</sup>Os(n, n'), E=10-70 keV; measured cross sections. CONF Geneva(NIC-IX) 054

<sup>187</sup>Pt      2007CAZV      NUCLEAR REACTIONS <sup>181</sup>Ta(<sup>11</sup>B, 5n), E=71 MeV; measured E $\gamma$ , I $\gamma$ . <sup>187</sup>Pt deduced high spin levels, J,  $\pi$ , shape coexistence. CONF Iguazu(Nuclear Physics and Applications) Proc,P448,Cardona

2007ZH09      NUCLEAR REACTIONS <sup>173</sup>Yb(<sup>18</sup>O, 4n), E=78, 85 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>187</sup>Pt deduced high-spin levels, J,  $\pi$ , configurations, B(M1) / B(E2). Comparison with model predictions. JOUR PRVCA 75 034314

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KEYNUMBERS AND KEYWORDS

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**A=187 (continued)**

<sup>187</sup>Pb 2006SE18 NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=188**

<sup>188</sup>Os 2006AV09 NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup>Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217  
2007M017 NUCLEAR REACTIONS <sup>186,187,188</sup>Os(n,  $\gamma$ ), E=1 eV to 1 MeV; measured cross section at the CERN n\_TOF facility. <sup>187</sup>Os(n, n'), E=30 keV; measured inelastic scattering cross section. JOUR PPNPD 59 165  
2007SEZY NUCLEAR REACTIONS <sup>186,187,189</sup>Os(n,  $\gamma$ ), E=low; measured prompt  $\gamma$  ray, cross sections. <sup>187</sup>Os(n, n'), E=10-70 keV; measured cross sections. CONF Geneva(NIC-IX) 054

<sup>188</sup>Pb 2006SE18 NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=189**

<sup>189</sup>Os 2006AV09 NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup>Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217  
2007M017 NUCLEAR REACTIONS <sup>186,187,188</sup>Os(n,  $\gamma$ ), E=1 eV to 1 MeV; measured cross section at the CERN n\_TOF facility. <sup>187</sup>Os(n, n'), E=30 keV; measured inelastic scattering cross section. JOUR PPNPD 59 165

<sup>189</sup>Tl 2007CH41 NUCLEAR REACTIONS <sup>165</sup>Ho(<sup>28</sup>Si, 4n)<sup>189</sup>Tl, E=138 MeV; measured E $\gamma$ , I $\gamma$ , lifetimes of high spin states using recoil distance measurement technique. Deduced transition quadrupole moment and deformation parameters. JOUR PRVCA 75 054323

<sup>189</sup>Pb 2006SE18 NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup>Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=190**

<sup>190</sup>Os 2006AV09 NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup>Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217  
2007SEZY NUCLEAR REACTIONS <sup>186,187,189</sup>Os(n,  $\gamma$ ), E=low; measured prompt  $\gamma$  ray, cross sections. <sup>187</sup>Os(n, n'), E=10-70 keV; measured cross sections. CONF Geneva(NIC-IX) 054

<sup>190</sup>Ir 2007PA14 NUCLEAR REACTIONS <sup>191</sup>Ir(n, 2n), E=10.0-11.3 MeV; measured activation  $\sigma$ , isomer ratio. Comparison with statistical model predictions. JOUR PRVCA 75 034607

KEYNUMBERS AND KEYWORDS

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**A=190 (continued)**

	2007TI03	NUCLEAR REACTIONS Pb, <sup>208</sup> Pb, <sup>209</sup> Bi(p, X) <sup>7</sup> Be / <sup>24</sup> Na / <sup>59</sup> Fe / <sup>86</sup> Rb / <sup>101m</sup> Rh / <sup>173</sup> Lu / <sup>190</sup> Ir / <sup>192</sup> Ir / <sup>196</sup> Au / <sup>199</sup> Tl / <sup>200</sup> Tl / <sup>203</sup> Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289
<sup>190</sup> Au	2007SH15	NUCLEAR REACTIONS <sup>232</sup> Th(n, γ), (n, 2n), <sup>197</sup> Au(n, γ), (n, α), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup> Co(n, α), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup> Ta(n, γ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged σ. Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307
<sup>190</sup> Hg	2006LE44	NUCLEAR REACTIONS <sup>188,190,192</sup> Pt(α, 2n) <sup>190,192,194</sup> Pt, E=27 MeV; measured g-factors of isomeric states using integral perturbed angular distribution of γ-rays in an external magnetic field of 2.9T. JOUR BRSPE 70 1822
<sup>190</sup> Pb	2006SE18	NUCLEAR MOMENTS <sup>182,183,184,185,186,187,188,189,190</sup> Pb; measured hfs, isotope shifts; deduced charge radii. Resonance ionization spectroscopy. JOUR HYIND 171 225

**A=191**

<sup>191</sup> Ir	2007LA18	RADIOACTIVITY <sup>191</sup> Pt(EC); measured Eγ, Iγ. <sup>191</sup> Ir deduced level energies. JOUR BRSPE 71 742
<sup>191</sup> Pt	2007LA18	RADIOACTIVITY <sup>191</sup> Pt(EC); measured Eγ, Iγ. <sup>191</sup> Ir deduced level energies. JOUR BRSPE 71 742
	2007SH15	NUCLEAR REACTIONS <sup>232</sup> Th(n, γ), (n, 2n), <sup>197</sup> Au(n, γ), (n, α), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup> Co(n, α), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup> Ta(n, γ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged σ. Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307
<sup>191</sup> Au	2007SH15	NUCLEAR REACTIONS <sup>232</sup> Th(n, γ), (n, 2n), <sup>197</sup> Au(n, γ), (n, α), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup> Co(n, α), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup> Ta(n, γ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged σ. Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

**A=192**

<sup>192</sup> Os	2006AV09	NUCLEAR MOMENTS <sup>184,186,187,188,189,190,192</sup> Os; measured hfs, isotope shifts. Laser spectroscopy. JOUR HYIND 171 217
<sup>192</sup> Ir	2007TI03	NUCLEAR REACTIONS Pb, <sup>208</sup> Pb, <sup>209</sup> Bi(p, X) <sup>7</sup> Be / <sup>24</sup> Na / <sup>59</sup> Fe / <sup>86</sup> Rb / <sup>101m</sup> Rh / <sup>173</sup> Lu / <sup>190</sup> Ir / <sup>192</sup> Ir / <sup>196</sup> Au / <sup>199</sup> Tl / <sup>200</sup> Tl / <sup>203</sup> Pb, E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289
<sup>192</sup> Au	2007SH15	NUCLEAR REACTIONS <sup>232</sup> Th(n, γ), (n, 2n), <sup>197</sup> Au(n, γ), (n, α), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup> Co(n, α), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup> Ta(n, γ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged σ. Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

KEYNUMBERS AND KEYWORDS

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**A=192 (continued)**

$^{192}\text{Hg}$	2006LE44	NUCLEAR REACTIONS $^{188,190,192}\text{Pt}(\alpha, 2n)^{190,192,194}\text{Pt}$ , E=27 MeV; measured g-factors of isomeric states using integral perturbed angular distribution of $\gamma$ -rays in an external magnetic field of 2.9T. JOUR BRSPE 70 1822
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**A=193**

$^{193}\text{Os}$	2007ZAZZ	RADIOACTIVITY $^{193}\text{Os}(\beta^-)$ ; measured $E\gamma$ , $\gamma\gamma$ angular correlation. $^{193}\text{Ir}$ deduced multipole mixing ratio. CONF Iguazu(Nuclear Physics and Applications) Proc,P442,Zahn
$^{193}\text{Ir}$	2007ZAZZ	RADIOACTIVITY $^{193}\text{Os}(\beta^-)$ ; measured $E\gamma$ , $\gamma\gamma$ angular correlation. $^{193}\text{Ir}$ deduced multipole mixing ratio. CONF Iguazu(Nuclear Physics and Applications) Proc,P442,Zahn

**A=194**

$^{194}\text{Re}$	2007KUZZ	RADIOACTIVITY $^{194,195,196}\text{Re}$ , $^{198,202}\text{Ir}$ [from $^{208}\text{Pb}$ fragmentation]; measured $T_{1/2}$ . Comparison with model predictions. CONF Geneva(NIC-IX) 008
$^{194}\text{Ir}$	2007SH15	NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307
$^{194}\text{Pt}$	2007ME09	NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501
$^{194}\text{Au}$	2007SH15	NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307
$^{194}\text{Hg}$	2006LE44	NUCLEAR REACTIONS $^{188,190,192}\text{Pt}(\alpha, 2n)^{190,192,194}\text{Pt}$ , E=27 MeV; measured g-factors of isomeric states using integral perturbed angular distribution of $\gamma$ -rays in an external magnetic field of 2.9T. JOUR BRSPE 70 1822

**A=195**

$^{195}\text{Re}$	2007KUZZ	RADIOACTIVITY $^{194,195,196}\text{Re}$ , $^{198,202}\text{Ir}$ [from $^{208}\text{Pb}$ fragmentation]; measured $T_{1/2}$ . Comparison with model predictions. CONF Geneva(NIC-IX) 008
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**A=196**

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| $^{196}\text{Re}$ | 2007KUZZ | RADIOACTIVITY $^{194,195,196}\text{Re}$ , $^{198,202}\text{Ir}$ [from $^{208}\text{Pb}$ fragmentation]; measured $T_{1/2}$ . Comparison with model predictions. CONF Geneva(NIC-IX) 008   |
| $^{196}\text{Pt}$ | 2007ME09 | NUCLEAR REACTIONS $^{127}\text{I}(\mu^-, \nu)$ , $(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , $(\mu^-, 6n\nu)$ , E at rest; $^{197}\text{Au}(\mu^-, n\nu)$ , $(\mu^-, 3n\nu)$ , E at rest; $^{209}\text{Bi}(\mu^-, n\nu)$ , $(\mu^-, 2n\nu)$ , $(\mu^-, 3n\nu)$ , $(\mu^-, 4n\nu)$ , $(\mu^-, 5n\nu)$ , E at rest; measured $E\gamma$ , $I\gamma$ , X-ray spectra. JOUR PRVCA 75 045501                    |
| $^{196}\text{Au}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
|                   | 2007TI03 | NUCLEAR REACTIONS Pb, $^{208}\text{Pb}$ , $^{209}\text{Bi}(p, X)^7\text{Be}$ / $^{24}\text{Na}$ / $^{59}\text{Fe}$ / $^{86}\text{Rb}$ / $^{101m}\text{Rh}$ / $^{173}\text{Lu}$ / $^{190}\text{Ir}$ / $^{192}\text{Ir}$ / $^{196}\text{Au}$ / $^{199}\text{Tl}$ / $^{200}\text{Tl}$ / $^{203}\text{Pb}$ , E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289                              |

**A=197**

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| $^{197}\text{Bi}$ | 2007MU07 | NUCLEAR REACTIONS $^{109}\text{Ag}(^{88}\text{Kr}, \gamma)$ , $^{109}\text{Ag}(^{92}\text{Kr}, \gamma)$ ; E= 2.2 MeV / nucleon; measured $E\gamma$ , $I\gamma$ , (particle) $\gamma$ -coinc using MINIBALL. Deduced B(E2). JOUR PPNPD 59 361 |
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**A=198**

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| $^{198}\text{Ir}$ | 2007KUZZ | RADIOACTIVITY $^{194,195,196}\text{Re}$ , $^{198,202}\text{Ir}$ [from $^{208}\text{Pb}$ fragmentation]; measured $T_{1/2}$ . Comparison with model predictions. CONF Geneva(NIC-IX) 008   |
| $^{198}\text{Au}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
| $^{198}\text{Tl}$ | 2007KU09 | NUCLEAR REACTIONS $^{197}\text{Au}(\alpha, n)$ , $(\alpha, 2n)$ , $(\alpha, 3n)$ , E=14-36 MeV; measured $E\gamma$ , $I\gamma$ . Deduced excitation functions using stack activation technique. JOUR PANUE 70 613   |

**A=199**

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| $^{199}\text{Tl}$ | 2007AS04 | NUCLEAR REACTIONS $^{203}\text{Tl}(\gamma, n)$ , $(\gamma, 2n)$ , $(\gamma, 3n)$ , $(\gamma, 4n)$ , $E\gamma=50$ MeV Bremsstrahlung; measured photonuclear cross sections by detecting $\gamma$ -ray spectra from the residual activity of the irradiated sample. JOUR BRSPPE 71 332 |
|                   | 2007KU09 | NUCLEAR REACTIONS $^{197}\text{Au}(\alpha, n)$ , $(\alpha, 2n)$ , $(\alpha, 3n)$ , E=14-36 MeV; measured $E\gamma$ , $I\gamma$ . Deduced excitation functions using stack activation technique. JOUR PANUE 70 613  |

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KEYNUMBERS AND KEYWORDS

**A=199 (continued)**

2007TI03 NUCLEAR REACTIONS Pb,  $^{208}\text{Pb}$ ,  $^{209}\text{Bi}(p, X)^7\text{Be} / ^{24}\text{Na} / ^{59}\text{Fe} / ^{86}\text{Rb} / ^{101m}\text{Rh} / ^{173}\text{Lu} / ^{190}\text{Ir} / ^{192}\text{Ir} / ^{196}\text{Au} / ^{199}\text{Tl} / ^{200}\text{Tl} / ^{203}\text{Pb}$ , E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

**A=200**

$^{200}\text{Tl}$  2007AS04 NUCLEAR REACTIONS  $^{203}\text{Tl}(\gamma, n)$ ,  $(\gamma, 2n)$ ,  $(\gamma, 3n)$ ,  $(\gamma, 4n)$ ,  $E_\gamma=50$  MeV Bremsstrahlung; measured photonuclear cross sections by detecting  $\gamma$ -ray spectra from the residual activity of the irradiated sample. JOUR BRSPE 71 332

2007KU09 NUCLEAR REACTIONS  $^{197}\text{Au}(\alpha, n)$ ,  $(\alpha, 2n)$ ,  $(\alpha, 3n)$ , E=14-36 MeV; measured  $E_\gamma$ ,  $I_\gamma$ . Deduced excitation functions using stack activation technique. JOUR PANUE 70 613

2007TI03 NUCLEAR REACTIONS Pb,  $^{208}\text{Pb}$ ,  $^{209}\text{Bi}(p, X)^7\text{Be} / ^{24}\text{Na} / ^{59}\text{Fe} / ^{86}\text{Rb} / ^{101m}\text{Rh} / ^{173}\text{Lu} / ^{190}\text{Ir} / ^{192}\text{Ir} / ^{196}\text{Au} / ^{199}\text{Tl} / ^{200}\text{Tl} / ^{203}\text{Pb}$ , E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

**A=201**

$^{201}\text{Tl}$  2007AS04 NUCLEAR REACTIONS  $^{203}\text{Tl}(\gamma, n)$ ,  $(\gamma, 2n)$ ,  $(\gamma, 3n)$ ,  $(\gamma, 4n)$ ,  $E_\gamma=50$  MeV Bremsstrahlung; measured photonuclear cross sections by detecting  $\gamma$ -ray spectra from the residual activity of the irradiated sample. JOUR BRSPE 71 332

$^{201}\text{Bi}$  2007MU07 NUCLEAR REACTIONS  $^{109}\text{Ag}(^{88}\text{Kr}, \gamma)$ ,  $^{109}\text{Ag}(^{92}\text{Kr}, \gamma)$ ; E= 2.2 MeV / nucleon; measured  $E_\gamma$ ,  $I_\gamma$ , (particle) $\gamma$ -coinc using MINIBALL. Deduced B(E2). JOUR PPNPD 59 361

**A=202**

$^{202}\text{Ir}$  2007KUZZ RADIOACTIVITY  $^{194,195,196}\text{Re}$ ,  $^{198,202}\text{Ir}$  [from  $^{208}\text{Pb}$  fragmentation]; measured  $T_{1/2}$ . Comparison with model predictions. CONF Geneva(NIC-IX) 008

$^{202}\text{Tl}$  2007AS04 NUCLEAR REACTIONS  $^{203}\text{Tl}(\gamma, n)$ ,  $(\gamma, 2n)$ ,  $(\gamma, 3n)$ ,  $(\gamma, 4n)$ ,  $E_\gamma=50$  MeV Bremsstrahlung; measured photonuclear cross sections by detecting  $\gamma$ -ray spectra from the residual activity of the irradiated sample. JOUR BRSPE 71 332

**A=203**

$^{203}\text{Pb}$  2007TI03 NUCLEAR REACTIONS Pb,  $^{208}\text{Pb}$ ,  $^{209}\text{Bi}(p, X)^7\text{Be} / ^{24}\text{Na} / ^{59}\text{Fe} / ^{86}\text{Rb} / ^{101m}\text{Rh} / ^{173}\text{Lu} / ^{190}\text{Ir} / ^{192}\text{Ir} / ^{196}\text{Au} / ^{199}\text{Tl} / ^{200}\text{Tl} / ^{203}\text{Pb}$ , E=0.04-2.6 GeV; measured excitation functions. Comparison with model predictions and previous data. JOUR PRAMC 68 289

**A=204**

<sup>204</sup>Pb 2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=205**

<sup>205</sup>Pb 2007C007 RADIOACTIVITY <sup>209</sup>Po( $\alpha$ ); measured decay rates from standard source; deduced possible error in previously published T<sub>1/2</sub>. JOUR ARISE 65 728

2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=206**

<sup>206</sup>Pb 2007B0ZZ RADIOACTIVITY <sup>210</sup>Po( $\alpha$ ); measured E $\gamma$ , I $\gamma$ ,  $\alpha\gamma$ -coinc from bremsstrahlung photons. Deduced differential emission probability and angular correlations PREPRINT arXiv:0706.2109v1 [nucl-ex]

2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=207**

<sup>207</sup>Pb 2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501

**A=208**

<sup>208</sup>Pb 2007BL10 NUCLEAR REACTIONS <sup>12</sup>C, <sup>208</sup>Pb(n, n), E=96 MeV; Fe, Pb, U(n, pX), (n, dX), (n, tX), E=96 MeV; measured  $\sigma(\theta)$ . <sup>181</sup>Ta, W, <sup>197</sup>Au, Pb, <sup>208</sup>Pb(n, F), E=20-200 MeV; measured fission  $\sigma$ . Cu(n, X)<sup>56</sup>Co, E=50-180 MeV; measured  $\sigma$ . JOUR PRAMC 68 269

2007ME09 NUCLEAR REACTIONS <sup>127</sup>I( $\mu^-$ ,  $\nu$ ), ( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), ( $\mu^-$ ,  $6n\nu$ ), E at rest; <sup>197</sup>Au( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), E at rest; <sup>209</sup>Bi( $\mu^-$ ,  $n\nu$ ), ( $\mu^-$ ,  $2n\nu$ ), ( $\mu^-$ ,  $3n\nu$ ), ( $\mu^-$ ,  $4n\nu$ ), ( $\mu^-$ ,  $5n\nu$ ), E at rest; measured E $\gamma$ , I $\gamma$ , X-ray spectra. JOUR PRVCA 75 045501



KEYNUMBERS AND KEYWORDS

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**A=209**

- <sup>209</sup>Bi    2006M042    NUCLEAR MOMENTS <sup>209</sup>Bi; measured hfs. Resonance ionization spectroscopy. JOUR HYIND 171 135
- 2007K023    NUCLEAR REACTIONS <sup>209</sup>Bi(<sup>6</sup>He, 2n $\alpha$ ), E=22.5 MeV; measured En, E $\alpha$ , n $\alpha$ -coin,  $\sigma(\theta)$ ; deduced reaction mechanism features. <sup>6</sup>He level deduced B(E2). JOUR PRVCA 75 031302
- <sup>209</sup>Po    2007C007    RADIOACTIVITY <sup>209</sup>Po( $\alpha$ ); measured decay rates from standard source; deduced possible error in previously published T<sub>1/2</sub>. JOUR ARISE 65 728

**A=210**

- <sup>210</sup>Bi    2007BIZY    NUCLEAR REACTIONS <sup>209</sup>Bi(n,  $\gamma$ ), E=spectrum; measured cross section. CONF Geneva(NIC-IX) 077
- 2007ST08    NUCLEAR REACTIONS <sup>209</sup>Bi(n,  $\gamma$ )<sup>210m</sup>Bi, E=thermal; measured cross section using accelerator mass spectrometry. JOUR NIMBE 259 739
- <sup>210</sup>Po    2007B0ZZ    RADIOACTIVITY <sup>210</sup>Po( $\alpha$ ); measured E $\gamma$ , I $\gamma$ ,  $\alpha\gamma$ -coinc for bremsstrahlung photons. Deduced differential emission probability and angular correlations PREPRINT arXiv:0706.2109v1 [nucl-ex]

**A=211**

No references found

**A=212**

No references found

**A=213**

No references found

**A=214**

- <sup>214</sup>Th    2007LE14    RADIOACTIVITY <sup>218,219</sup>U( $\alpha$ ) [from <sup>182</sup>W(<sup>40</sup>Ar, X)]; measured E $\alpha$ , T<sub>1/2</sub>. Deduced hindrance factors and reduced widths. JOUR PRVCA 75 054307

KEYNUMBERS AND KEYWORDS

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**A=215**

- $^{215}\text{Rn}$       2007DEZV      NUCLEAR REACTIONS  $^{207}\text{Pb}(^{18}\text{O}, 2n2\alpha)$ ,  $E=93$  MeV; measured  $E\gamma$ ,  $E\alpha$ ,  $\gamma\gamma\alpha$  coincidences.  $^{215}\text{Rn}$  deduced high spin states, octupole instability. GASP, ISIS arrays. CONF Iguazu(Nuclear Physics and Applications) Proc,P450,Debray
- $^{215}\text{Th}$       2007LE14      RADIOACTIVITY  $^{218,219}\text{U}(\alpha)$  [from  $^{182}\text{W}(^{40}\text{Ar}, \text{X})$ ]; measured  $E\alpha$ ,  $T_{1/2}$ . Deduced hindrance factors and reduced widths. JOUR PRVCA 75 054307

**A=216**

No references found

**A=217**

No references found

**A=218**

- $^{218}\text{U}$       2007LE14      RADIOACTIVITY  $^{218,219}\text{U}(\alpha)$  [from  $^{182}\text{W}(^{40}\text{Ar}, \text{X})$ ]; measured  $E\alpha$ ,  $T_{1/2}$ . Deduced hindrance factors and reduced widths. JOUR PRVCA 75 054307

**A=219**

- $^{219}\text{U}$       2007LE14      RADIOACTIVITY  $^{218,219}\text{U}(\alpha)$  [from  $^{182}\text{W}(^{40}\text{Ar}, \text{X})$ ]; measured  $E\alpha$ ,  $T_{1/2}$ . Deduced hindrance factors and reduced widths. JOUR PRVCA 75 054307

**A=220**

No references found

**A=221**

No references found

**A=222**

No references found

KEYNUMBERS AND KEYWORDS

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**A=223**

No references found

**A=224**

No references found

**A=225**

No references found

**A=226**

No references found

**A=227**

No references found

**A=228**

No references found

**A=229**

<sup>229</sup>Th      2007BE16      RADIOACTIVITY <sup>233</sup>U( $\alpha$ ); measured E $\gamma$ , I $\gamma$ . <sup>229</sup>Th deduced excited state energy. JOUR PRLTA 98 142501

**A=230**

No references found

**A=231**

<sup>231</sup>Th      2007SH15      NUCLEAR REACTIONS <sup>232</sup>Th(n,  $\gamma$ ), (n, 2n), <sup>197</sup>Au(n,  $\gamma$ ), (n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, 8n), (n, 6np), <sup>59</sup>Co(n,  $\alpha$ ), (n, 2n), (n, 4n), (n, 5n), <sup>181</sup>Ta(n,  $\gamma$ ), (n, 2n), (n, 4n), (n, 5n), (n, np), E=spectrum; measured spectrum-averaged  $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307

KEYNUMBERS AND KEYWORDS

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**A=232**

No references found

**A=233**

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|-------------------|----------|---|
| $^{233}\text{Th}$ | 2007SH15 | NUCLEAR REACTIONS $^{232}\text{Th}(n, \gamma)$ , $(n, 2n)$ , $^{197}\text{Au}(n, \gamma)$ , $(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 6n)$ , $(n, 7n)$ , $(n, 8n)$ , $(n, 6np)$ , $^{59}\text{Co}(n, \alpha)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $^{181}\text{Ta}(n, \gamma)$ , $(n, 2n)$ , $(n, 4n)$ , $(n, 5n)$ , $(n, np)$ , E=spectrum; measured spectrum-averaged $\sigma$ . Spallation neutrons from proton-induced reaction. JOUR PRAMC 68 307 |
| $^{233}\text{U}$  | 2007BE16 | RADIOACTIVITY $^{233}\text{U}(\alpha)$ ; measured $E\gamma$ , $I\gamma$ . $^{229}\text{Th}$ deduced excited state energy. JOUR PRLTA 98 142501  |

**A=234**

No references found

**A=235**

No references found

**A=236**

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|-------------------|----------|--|
| $^{236}\text{Th}$ | 2007XU04 | NUCLEAR REACTIONS $^{238}\text{U}(^{18}\text{O}, ^{20}\text{Ne})$ , E=60 MeV / nucleon; measured $E\gamma$ , $I\gamma$ ; deduced $\sigma$ . JOUR JRNCD 272 227 |
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**A=237**

No references found

**A=238**

No references found

**A=239**

No references found

KEYNUMBERS AND KEYWORDS

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**A=240**

$^{240}\text{Am}$	2007PE07	NUCLEAR REACTIONS $^{241}\text{Am}(n, 2n)$ , $E=8.8\text{-}11.1$ MeV; measured $\sigma$ . Activation method. Comparison with model predictions, previous results. JOUR JRNC D 272 223
$^{240}\text{Cf}$	2007HI04	NUCLEAR REACTIONS $^{208}\text{Pb}(^{32}\text{S}, X)^{240}\text{Cf}$ , $^{206}\text{Pb}(^{34}\text{S}, X)^{240}\text{Cf}$ , $^{204}\text{Pb}(^{36}\text{S}, X)^{240}\text{Cf}$ , $E=152\text{-}212$ MeV; measured $\sigma$ , fusion excitation functions, fission anisotropies. Deduced fusion barrier energy systematics. JOUR PRVCA 75 054603

**A=241**

No references found

**A=242**

No references found

**A=243**

No references found

**A=244**

No references found

**A=245**

No references found

**A=246**

No references found

**A=247**

No references found

**A=248**

No references found

KEYNUMBERS AND KEYWORDS

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**A=249**

No references found

**A=250**

No references found

**A=251**

<sup>251</sup>Md      2007CH26      NUCLEAR REACTIONS <sup>205</sup>Tl(<sup>48</sup>Ca, 2n), E=211, 214, 217 MeV; measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -, (recoil) $\gamma$ -coin; deduced  $\sigma$ . <sup>251</sup>Md deduced high-spin levels, J,  $\pi$ , configurations. Jurogam array, recoil-decay tagging. JOUR PRLTA 98 132503

**A=252**

<sup>252</sup>Cf      2007DI09      RADIOACTIVITY <sup>252</sup>Cf(SF); measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin using the Gammasphere array. <sup>108</sup>Mo deduced level energies, J,  $\pi$ . JOUR CPLEE 24 1517

                 2007GR08      RADIOACTIVITY <sup>252</sup>Cf(SF); measured fission fragment energy distributions using a hybrid semiconductor detector. JOUR NIMAE 574 472

                 2007LI21      RADIOACTIVITY <sup>252</sup>Cf(SF); measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ -coin. <sup>137,138</sup>Cs deduced high-spin levels, J,  $\pi$ , configurations. Gammasphere array, comparison with shell model predictions. JOUR PRVCA 75 044314

                 2007ZH24      RADIOACTIVITY <sup>252</sup>Cf(SF); measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma\gamma$ -coinc with Gammasphere. A=99-114; deduced new band structures and significant extensions of previously known bands. JOUR PPNPD 59 329

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