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10 reference(s) found :

Keynumber: [1999VO02](#)

Reference: Phys.Rev. C59, 1154 (1999)

Authors: F.Voss, K.Wisshak, C.Arlandini, F.Kappeler, L.Kazakov, T.Rauscher

Title: Stellar Neutron Capture Cross Sections of Pr and Dy Isotopes

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , 160 , 161 , 162 , 163 , $^{164}\text{Dy}(n,\gamma)$, $E=3-225$ keV; measured total,capture σ ; deduced Maxwellian averaged neutron capture σ at stellar energies. Astrophysical implications discussed.

Keynumber: 1998WIZW

Reference: Proc.Intern.Symposium on Nuclear Astrophysics, Nuclei in the Cosmos V, Volos, Greece, July 6-11, 1998, N.Prantzos, S.Harissopulos, Eds., Editions Frontieres, Paris, p.212 (1998)

Authors: K.Wisshak, F.Voss, C.Arlandini, F.Kappeler, T.Rauscher

Title: Neutron Capture in Dy and Yb Isotopes: Implications for the s-process

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , 160 , 161 , 162 , 163 , ^{164}Dy , 170 , 171 , 172 , 173 , 174 , $^{176}\text{Yb}(n,\gamma)$, $E=3-225$ keV; measured capture σ ; deduced stellar capture σ ,s-process implications.

Keynumber: 1997KAZR

Reference: Proc.Intern.on Nuclear Data for Science and Technology, Trieste, Italy, 19-24 May, 1997, G.Reffo, A.Ventura, C.Grandi, Eds., Editrice Compositori, Italy, Pt.2, p.1576 (1997)

Authors: F.Kappeler, K.Wisshak, F.Voss, G.Reffo

Title: Improved (n,γ) Cross Sections in the Rare Earth Region: Implications for s- and r-Process Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , 142 , 143 , 144 , 145 , 146 , ^{148}Nd , 160 , 161 , 162 , 163 , ^{164}Dy , 164 , $^{170}\text{Er}(n,\gamma)$, E not given; measured Maxwellian averaged σ at $kT=30$ keV. Activation technique.

Keynumber: 1986SC16

Reference: Nucl.Phys. A454, 267 (1986)

Authors: H.H.Schmidt, T.von Egidy, H.J.Scheerer, P.Hungerford, H.G.Borner, S.A.Kerr, K.Schreckenbach, R.F.Casten, W.R.Kane, D.D.Warner, A.Chalupka, M.K.Balodis, T.V.Guseva, P.T.Prokofjev, J.J.Tamberg

Title: Nuclear Structure of ^{161}Dy Studied with (n,γ) , (d,p) and (d,t) Reactions

Keyword abstract: NUCLEAR REACTIONS $^{160}\text{Dy}(n,\gamma)$, $E=\text{thermal}$, $2,24$ keV; $^{160}\text{Dy}(n,e)$, $E=\text{thermal}$; $^{160}\text{Dy}(d,p)$, $E=14,22$ MeV; $^{162}\text{Dy}(d,t)$, $E=14,22$ MeV; measured $E\gamma$, $I\gamma$, $I(\text{ce})$, E_p , $\sigma(E_p)$. ^{161}Dy deduced levels, J , π , ICC, γ -branching, Nilsson configurations. Curved crystal spectrometers, Ge(Li) pair spectrometers, magnetic conversion electron spectrometer, magnetic spectrograph.

Keynumber: 1985VOZV

Reference: Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics, Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.305 (1985)

Authors: T.von Egidy, P.Hungerford, H.H.Schmidt, H.J.Scheerer, A.N.Behkami, G.Hlawatsch, B.Krusche, K.P.Lieb, H.G.Borner, S.A.Kerr, K.Schreckenbach

Title: Structural and Statistical Aspects of Extensive Level Schemes from (n,γ) and Transfer Reactions

Keyword abstract: NUCLEAR REACTIONS ^{19}F , ^{23}Na , ^{27}Al , ^{35}Cl , 39 , 40 , ^{41}K , ^{113}Cd , ^{133}Cs , ^{154}Sm ,

^{153}Eu , ^{154}Gd , 160 , $^{162}\text{Dy}(n,\gamma)$, (n,e) , E not given; measured not given. ^{20}F , ^{24}Na , ^{28}Al , ^{36}Cl , 40 , 41 , ^{42}K , ^{114}Cd , ^{134}Cs , ^{155}Sm , ^{154}Eu , ^{155}Gd , 161 , ^{163}Dy deduced levels, γ -transition multipolarity, strength distribution.

Keynumber: 1985SCZS

Reference: Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics,Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.406 (1985)

Authors: H.H.Schmidt, P.Hungerford, T.v.Egidy, H.J.Scheerer, H.G.Borner, S.A.Kerr, K.Schreckenbach, F.Hoyler, G.Colvin, R.F.Casten, D.D.Warner, W.Kane

Title: Single Particle and Vibrational Bands in ^{155}Gd , ^{161}Dy , and ^{163}Dy

Keyword abstract: NUCLEAR REACTIONS ^{154}Gd , 160 , $^{162}\text{Dy}(n,\gamma)$, (n,e) , E =thermal,2,24 keV; measured $E\gamma$, $I\gamma$, electron spectra. ^{154}Gd , 160 , $^{162}\text{Dy}(d,p)$, ^{155}Gd , 162 , $^{164}\text{Dy}(d,t)$, E =14,20 MeV; measured $\sigma(E_p)$, $\sigma(E_t)$. ^{155}Gd , 161 , ^{163}Dy deduced levels, J,π , rotational bands, band structure, configuration.

Keynumber: 1984NEZR

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.3, p.143 (1984)

Authors: K.Nedvedyuk, Yu.P.Popov

Title: Determination of the Average Radiative Neutron Capture from Systematics

Keyword abstract: NUCLEAR REACTIONS 74 , ^{82}Se , ^{82}Kr , ^{84}Sr , 102 , 109 , ^{112}Pd , 104 , 109 , 115 , 117 , ^{118}Cd , 110 , 113 , 114 , 115 , ^{121}Sn , 120 , 127 , 129 , 131 , ^{132}Te , 131 , 132 , ^{133}Ba , 145 , 146 , 151 , ^{156}Sm , 152 , 154 , ^{159}Gd , 156 , 158 , 160 , ^{165}Dy , 166 , 168 , 169 , ^{175}Yb , $^{190}\text{Os}(n,\gamma)$, E =30 keV; analyzed average radiative σ dependence on neutron number, neutron binding energy; deduced σ .

Keynumber: 1984BE34

Reference: Phys.Rev. C30, 464 (1984)

Authors: H.Beer, G.Walter, R.L.Macklin, P.J.Patchett

Title: Neutron Capture Cross Sections and Solar Abundances of 160 , ^{161}Dy , 170 , ^{171}Yb , 175 , ^{176}Lu , and 176 , ^{177}Hf for the s-Process Analysis of the Radionuclide ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS 160 , ^{161}Dy , 170 , ^{171}Yb , 175 , ^{176}Lu , 176 , $^{177}\text{Hf}(n,\gamma)$, $E \approx 3$ -500 keV; measured $\sigma(E)$, γ yields; deduced Maxwellian $\langle \sigma \rangle$ solar abundances, s-process temperature constraints. 176 , ^{177}Lu , 177 , ^{178}Hf , 161 , ^{162}Dy , 171 , ^{172}Yb deduced resonances, parameters, $(g\Gamma_n\Gamma_\gamma/\Gamma)$, s-wave strength functions.

Keynumber: 1975LI02

Reference: Phys.Rev. C11, 462 (1975)

Authors: H.I.Liou, G.Hacken, J.Rainwater, U.N.Singh

Title: Neutron Resonance Spectroscopy: The Separated Isotopes of Dy

Keyword abstract: NUCLEAR REACTIONS 160 , 161 , 162 , 163 , $^{164}\text{Dy}(n,n)$, (n,γ) , E =1-2.5 keV; measured total $\sigma(E)$. 161 , 162 , 163 , 164 , ^{165}Dy deduced resonances, n-width, γ -width.

Keynumber: 1971DO19

Reference: Int.J.Mass Spectrom.Ion Phys. 6, 435 (1971)

Authors: R.Dobrozemsky, F.Pichlmayer, F.P.Viehbock

Title: Massenspektrometrische Bestimmung der Neutronen-Einfangsquerschnitte von Isotopen der Seltenen Erden

Keyword abstract: NUCLEAR REACTIONS 147 , ^{148}Sm , 154 , ^{158}Gd , 160 , 161 , 162 , ^{163}Dy , ^{166}Er , 170 , 171 , 172 , $^{173}\text{Yb}(n,\gamma)$, E =pile,thermal; measured σ ; deduced effective resonance integral.
