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### 33 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  $^{141}\text{Pr}$ ,  $^{160}$ ,  $^{161}$ ,  $^{162}$ ,  $^{163}$ ,  $^{164}\text{Dy}(n,\gamma)$ ,  $E=3-225$  keV; measured total, capture  $\sigma$ ; deduced Maxwellian averaged neutron capture  $\sigma$  at stellar energies. Astrophysical implications discussed.

**Keynumber:** 1999SU03

**Reference:** Yad.Fiz. 62, No 1, 24 (1999); Phys.Atomic Nuclei 62, 19 (1999)

**Authors:** A.M.Sukhovi, V.A.Khitrov

**Title:** Experimental Estimate of the Density of Levels in a Heavy Nucleus That Are Excited in  $(n,\gamma)$  Reactions at Excitation Energies of 3 to 4 MeV

**Keyword abstract:** NUCLEAR REACTIONS  $^{113}\text{Cd}$ ,  $^{123}\text{Te}$ ,  $^{145}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{155}$ ,  $^{157}\text{Gd}$ ,  $^{162}$ ,  $^{163}$ ,  $^{164}\text{Dy}$ ,  $^{167}\text{Er}$ ,  $^{173}$ ,  $^{174}\text{Yb}$ ,  $^{177}$ ,  $^{178}$ ,  $^{180}\text{Hf}$ ,  $^{187}$ ,  $^{189}\text{Os}$ ,  $^{195}\text{Pt}$ ,  $^{199}\text{Hg}$ ,  $^{127}\text{I}$ ,  $^{159}\text{Tb}$ ,  $^{165}\text{Ho}$ ,  $^{169}\text{Tm}$ ,  $^{175}\text{Lu}$ ,  $^{181}\text{Ta}$ ,  $^{191}\text{Ir}$ ,  $^{197}\text{Au}$ ,  $^{124}\text{Te}$ ,  $^{182}$ ,  $^{185}\text{W}(n,\gamma)$ ,  $E=\text{thermal}$ ; analyzed  $I\gamma$ ; deduced non-exponential level densities.

**Keynumber:** 1999MI27

**Reference:** J.Nucl.Sci.Technol.(Tokyo) 36, 493 (1999)

**Authors:** S.Mizuno, M.Igashira, K.Masuda

**Title:** Measurements of keV-Neutron Capture Cross Sections and Capture Gamma-Ray Spectra of  $^{161,162,163}\text{Dy}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{161}$ ,  $^{162}$ ,  $^{163}\text{Dy}(n,\gamma)$ ,  $E=10-90,550$  keV; measured  $E\gamma, I\gamma$ , capture  $\sigma$ . Comparison with evaluated data, previous measurements.

**Keynumber:** 1999BO14

**Reference:** Yad.Fiz. 62, No 5, 892 (1999); Phys.Atomic Nuclei 62, 832 (1999)

**Authors:** S.T.Boneva, E.V.Vasileva, L.I.Simonova, V.A.Bondarenko, A.M.Sukhovi, V.A.Khitrov

**Title:**  $(n,\gamma)$  Reactions in Heavy Nuclei: Manifestations of nuclear structure at excitation energies up to the neutron binding energy

**Keyword abstract:** NUCLEAR REACTIONS  $^{113}\text{Cd}$ ,  $^{123}$ ,  $^{124}\text{Te}$ ,  $^{127}\text{I}$ ,  $^{134}$ ,  $^{136}$ ,  $^{137}$ ,  $^{138}\text{Ba}$ ,  $^{139}\text{La}$ ,  $^{142}$ ,  $^{143}$ ,  $^{145}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{155}$ ,  $^{157}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{162}$ ,  $^{163}$ ,  $^{164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{167}\text{Er}$ ,  $^{169}\text{Tm}$ ,  $^{173}$ ,  $^{174}$ ,  $^{176}\text{Yb}$ ,  $^{175}$ ,  $^{176}\text{Lu}$ ,  $^{177}$ ,  $^{178}$ ,  $^{179}$ ,  $^{180}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{182}$ ,  $^{186}\text{W}$ ,  $^{187}$ ,  $^{189}\text{Os}$ ,  $^{191}\text{Ir}$ ,  $^{195}\text{Pt}$ ,  $^{197}\text{Au}$ ,  $^{199}\text{Hg}(n,\gamma)$ ,  $E$  not given; analyzed two-photon  $\gamma$  cascade data; deduced structure effects.

**Keynumber:** 1998WIZW

**Reference:** Proc.Intern.Symposium on Nuclear Astrophysics, Nuclei in the Cosmos V, Volos, Greece, July 6-11, 1998, N.Prantzos, S.Harissopoulos, 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  $^{141}\text{Pr}$ ,  $^{160}$ ,  $^{161}$ ,  $^{162}$ ,  $^{163}$ ,  $^{164}\text{Dy}$ ,  $^{170}$ ,  $^{171}$ ,  $^{172}$ ,  $^{173}$ ,  $^{174}$ ,  $^{176}\text{Yb}(n,\gamma)$ ,  $E=3-225$  keV; measured capture  $\sigma$ ; deduced stellar capture  $\sigma$ , s-process implications.

**Keynumber:** 1997SU29

**Reference:** Bull.Rus.Acad.Sci.Phys. 61, 1611 (1997)

**Authors:** A.M.Sukhvoi, V.A.Khitrov

**Title:** Cascade Gamma Decay of the Compound State of Heavy Nucleus as Seen Experimentally

**Keyword abstract:** NUCLEAR REACTIONS  $^{113}\text{Cd}$ ,  $^{127}\text{I}$ ,  $^{123}\text{Te}$ ,  $^{134}$ ,  $^{136}$ ,  $^{137}$ ,  $^{138}\text{Ba}$ ,  $^{142}$ ,  $^{143}$ ,  $^{145}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{155}$ ,  $^{157}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{165}\text{Ho}$ ,  $^{162}$ ,  $^{163}$ ,  $^{164}\text{Dy}$ ,  $^{167}\text{Er}$ ,  $^{169}\text{Tm}$ ,  $^{173}$ ,  $^{174}$ ,  $^{176}\text{Yb}$ ,  $^{175}$ ,  $^{176}\text{Lu}$ ,  $^{177}$ ,  $^{178}$ ,  $^{179}$ ,  $^{180}\text{Hf}$ ,  $^{195}\text{Pt}$ ,  $^{199}\text{Hg}$ ,  $^{181}\text{Ta}$ ,  $^{182}$ ,  $^{186}\text{W}$ ,  $^{191}\text{Ir}$ ,  $^{197}\text{Au}(n,\gamma)$ ,  $E=\text{thermal}$ ; analyzed  $\gamma$  spectra,  $\gamma\gamma$ -coin.  $^{114}\text{Cd}$ ,  $^{124}\text{Te}$ ,  $^{137}$ ,  $^{138}$ ,  $^{139}\text{Ba}$ ,  $^{146}\text{Nd}$ ,  $^{150}\text{Sm}$ ,  $^{156}$ ,  $^{158}\text{Gd}$ ,  $^{160}\text{Tb}$ ,  $^{164}\text{Dy}$ ,  $^{168}\text{Er}$ ,  $^{170}\text{Tm}$ ,  $^{174}\text{Yb}$ ,  $^{181}\text{Hf}$ ,  $^{196}\text{Pt}$ ,  $^{200}\text{Hg}$ ,  $^{182}\text{Ta}$ ,  $^{183}\text{W}$ ,  $^{192}\text{Ir}$ ,  $^{198}\text{Au}$  deduced two-quantum cascade intensities vs excitation energy, level density parameters, pairing features.

**Keynumber:** 1997MIZZ

**Reference:** Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.1, p.434 (1997)

**Authors:** S.Mizuno, M.Igashira, H.Kitazawa

**Title:** Measurements of keV-Neutron Capture Gamma Rays of  $^{161}$ ,  $^{162}$ ,  $^{163}\text{Dy}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{161}$ ,  $^{162}$ ,  $^{163}\text{Dy}(n,\gamma)$ ,  $E \approx 60$  keV; measured  $E\gamma$ ,  $I\gamma$ .

**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  $(n,\gamma)$  Cross Sections in the Rare Earth Region: Implications for s- and r-Process Nucleosynthesis

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

**Keynumber:** [1995BE37](#)

**Reference:** Phys.Rev. C52, 1278 (1995)

**Authors:** F.Becvar, P.Cejnar, J.Honzatko, K.Konecny, I.Tomandl, R.E.Chrien

**Title:** E1 and M1 Strengths Studied from Two-Step  $\gamma$  Cascades following Capture of Thermal Neutrons in  $^{162}\text{Dy}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin.  $^{163}\text{Dy}$  deduced two-step cascades E1, M1 transition strengths, GDR. Nuclear temperature, Brink hypothesis, scissors mode M1 resonance discussed.

**Keynumber:** 1989SC31

**Reference:** Nucl.Phys. A504, 1 (1989)

**Authors:** H.H.Schmidt, P.Hungerford, T.von Egidy, H.J.Scheerer, H.G.Borner, S.A.Kerr, K.Schreckenbach, F.Hoyler, G.G.Colvin, A.M.Bruce, R.F.Casten, D.D.Warner, I.L.Kugava, V.A.Bondarenko, N.D.Kramer, P.T.Prokofjev, A.Chalupka

**Title:** Nuclear Structure of  $^{163}\text{Dy}$  Studied with  $(n,\gamma)$ ,  $(n,n'\gamma)$ ,  $(d,p)$  and  $(d,t)$  Reactions

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ ,  $E=\text{thermal}$ , 2 keV, 24 keV; measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin;  $^{162}\text{Dy}(n,e^-)$ ,  $E=\text{thermal}$ ; measured  $I(\text{ce})$ ;  $^{163}\text{Dy}(n,n'\gamma)$ ,  $E=\text{fast}$ ; measured  $E\gamma$ ,  $I\gamma$ ;  $^{162}\text{Dy}(d,p)$ ,  $^{164}\text{Dy}(d,t)$ ,  $E=14$  MeV; measured  $\sigma(\text{Ep})$ ,  $\sigma(\text{Et})$ .  $^{163}\text{Dy}$  deduced levels,  $J,\pi$ , rotational bands, Nilsson assignments, branching ratios, neutron binding energy.

**Keynumber:** 1988KUZO

**Reference:** Program and Theses, Proc.38th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Baku, p.111 (1988)

**Authors:** I.L.Kuvaga, V.A.Bondarenko, P.T.Prokofev

**Title:** On the  $^{163}\text{Dy}$  Level Scheme

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ , E=thermal; measured  $\gamma\gamma$ -coin.  $^{163}\text{Dy}$  deduced levels, J,  $\pi$ . Amplitude summation method. Hyperpure Ge detectors.

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**Keynumber:** 1988BO19

**Reference:** Z.Phys. A330, 153 (1988)

**Authors:** S.T.Boneva, V.A.Khitrov, Yu.P.Popov, A.M.Sukhovoij, E.V.Vasilieva, Yu.S.Yazvitsky

**Title:** Cascade  $\gamma$ -Decay of Compound-State of the Nuclei  $^{163}\text{Dy}$ ,  $^{167}\text{Er}$  and  $^{179}\text{Hf}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}$ ,  $^{166}\text{Er}$ ,  $^{178}\text{Hf}(n,\gamma)$ , E=thermal; measured two-quanta cascade  $E\gamma, I\gamma$ .  $^{163}\text{Dy}$ ,  $^{167}\text{Er}$ ,  $^{179}\text{Hf}$  deduced transition characteristics.

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**Keynumber:** 1987BOZG

**Reference:** JINR-P3-87-513 (1987)

**Authors:** S.T.Boneva, Eh.V.Vasileva, Yu.P.Popov, A.M.Sukhovoij, V.A.Khitrov, Yu.S.Yazvitsky

**Title:** Cascade Gamma-Decay of Compound States of  $^{163}\text{Dy}$ ,  $^{167}\text{Er}$  and  $^{179}\text{Hf}$  Nuclei

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}$ ,  $^{166}\text{Er}$ ,  $^{178}\text{Hf}(n,\gamma)$ , E=thermal; measured  $\gamma\gamma$ -coin,  $I\gamma$ .  $^{163}\text{Dy}$ ,  $^{167}\text{Er}$ ,  $^{179}\text{Hf}$  deduced levels, J,  $\pi$ , two-quanta cascade intensities,  $\gamma$ -multipolarity. Amplitude summation method.

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**Keynumber:** 1986BOZP

**Reference:** Program and Theses, Proc.36th,Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.123 (1986)

**Authors:** S.T.Boneva, E.V.Vasileva, Yu.P.Popov, A.M.Sukhovoij, V.A.Khitrov, Yu.S.Yazvitsky

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ , E=thermal; measured  $\gamma$ -spectra,  $\gamma\gamma$ -coin.  $^{163}\text{Dy}$  deduced levels. Amplitude summation method.

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**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  $(n,\gamma)$  and Transfer Reactions

**Keyword abstract:** NUCLEAR REACTIONS  $^{19}\text{F}$ ,  $^{23}\text{Na}$ ,  $^{27}\text{Al}$ ,  $^{35}\text{Cl}$ ,  $^{39}$ ,  $^{40}$ ,  $^{41}\text{K}$ ,  $^{113}\text{Cd}$ ,  $^{133}\text{Cs}$ ,  $^{154}\text{Sm}$ ,  $^{153}\text{Eu}$ ,  $^{154}\text{Gd}$ ,  $^{160}$ ,  $^{162}\text{Dy}(n,\gamma)$ ,  $(n,e)$ , E not given; measured not given.  $^{20}\text{F}$ ,  $^{24}\text{Na}$ ,  $^{28}\text{Al}$ ,  $^{36}\text{Cl}$ ,  $^{40}$ ,  $^{41}$ ,  $^{42}\text{K}$ ,  $^{114}\text{Cd}$ ,  $^{134}\text{Cs}$ ,  $^{155}\text{Sm}$ ,  $^{154}\text{Eu}$ ,  $^{155}\text{Gd}$ ,  $^{161}$ ,  $^{163}\text{Dy}$  deduced levels,  $\gamma$ -transition multipolarity, strength distribution.

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**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  $^{155}\text{Gd}$ ,  $^{161}\text{Dy}$ , and  $^{163}\text{Dy}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}$ ,  $^{160}$ ,  $^{162}\text{Dy}(n,\gamma)$ ,  $(n,e)$ , E=thermal, 2,24 keV;

measured  $E\gamma, I\gamma$ , electron spectra.  $^{154}\text{Gd}$ ,  $^{160, 162}\text{Dy}(d,p)$ ,  $^{155}\text{Gd}$ ,  $^{162, 164}\text{Dy}(d,t)$ ,  $E=14, 20$  MeV; measured  $\sigma(E_p), \sigma(E_t)$ .  $^{155}\text{Gd}$ ,  $^{161, 163}\text{Dy}$  deduced levels,  $J, \pi$ , rotational bands, band structure, configuration.

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**Keynumber:** 1984PR03

**Reference:** Z.Phys. A315, 103 (1984)

**Authors:** W.V.Prestwich, M.A.Islam, T.J.Kennett

**Title:** Primary E2 Transitions Observed following Neutron Capture for the Mass Region  $144 \leq A \leq 180$

**Keyword abstract:** NUCLEAR REACTIONS  $^{143}\text{Nd}$ ,  $^{162, 164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{167}\text{Er}$ ,  $^{173}\text{Yb}$ ,  $^{179}\text{Hf}$

$(n, \gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ .  $^{144}\text{Nd}$ ,  $^{163, 165}\text{Dy}$ ,  $^{166}\text{Ho}$ ,  $^{168}\text{Er}$ ,  $^{174}\text{Yb}$ ,  $^{180}\text{Hf}$  deduced E2 transition  $\Gamma\gamma$  upper limits. Axel-Brink hypothesis based analysis.

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**Keynumber:** 1983IS05

**Reference:** Z.Phys. A311, 195 (1983)

**Authors:** M.A.Islam, T.J.Kennett, W.V.Prestwich

**Title:** A Probabilistic Model for Spectral Assignment in the  $(n, \gamma)$  Reaction

**Keyword abstract:** NUCLEAR REACTIONS  $^{45}\text{Sc}$ ,  $^{35}\text{Cl}$ ,  $^{162, 164}\text{Dy}$ ,  $^{165}\text{Ho}(n, \gamma)$ ,  $E$  not given; analyzed capture data; deduced  $\gamma$ -transition spectral assignment. Probabilistic model.

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**Keynumber:** 1982IS05

**Reference:** Phys.Rev. C25, 3184 (1982)

**Authors:** M.A.Islam, T.J.Kennett, W.V.Prestwich

**Title:** Neutron Separation Energies of Some Heavy Nuclides

**Keyword abstract:** NUCLEAR REACTIONS  $^{142, 143, 145}\text{Nd}$ ,  $^{155, 157}\text{Gd}$ ,  $^{161, 162, 164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{174, 173}\text{Yb}(n, \gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma$ .  $^{143, 144, 146}\text{Nd}$ ,  $^{156, 158}\text{Gd}$ ,  $^{162, 163, 164, 165}\text{Dy}$ ,  $^{166}\text{Ho}$ ,  $^{175, 174}\text{Yb}$  deduced neutron separation energy.

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**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  $^{160, 161, 162, 163, 164}\text{Dy}(n, n)$ ,  $(n, \gamma)$ ,  $E=1-2.5$  keV; measured total  $\sigma(E)$ .  $^{161, 162, 163, 164, 165}\text{Dy}$  deduced resonances,  $n$ -width,  $\gamma$ -width.

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**Keynumber:** 1975CHZT

**Coden:** REPT ERDA/NDC-2, p31, Chrien

**Keyword abstract:** NUCLEAR REACTIONS  $^{162, 164}\text{Dy}$ ,  $^{152}\text{Sm}$ ,  $^{156}\text{Gd}$ ,  $^{170}\text{Yb}$ ,  $^{158, 160}\text{Gd}$ ,  $^{164, 166, 168, 170}\text{Er}(n, \gamma)$ ,  $E=0.0253$  eV; measured  $\sigma(E\gamma)$ .  $^{163, 165}\text{Dy}$ ,  $^{153}\text{Sm}$ ,  $^{151}\text{Gd}$ ,  $^{171}\text{Yb}$  resonances deduced  $J, \pi$ .

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**Keynumber:** 1974COZX

**Coden:** JOUR BAPSA 19 111 KI13

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}\text{Sm}$ ,  $^{162, 164}\text{Dy}$ ,  $^{170}\text{Yb}$ ,  $^{186}\text{W}(n, \gamma)$ ; measured  $\sigma(E)$ .  $^{153}\text{Sm}$ ,  $^{163, 165}\text{Dy}$ ,  $^{171}\text{Yb}$ ,  $^{187}\text{W}$  levels deduced level-width.

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**Keynumber:** 1974COYX

**Coden:** CONF Petten(Neutron Capture Gamma Ray Spectroscopy), P31

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}\text{Sm}$ ,  $^{170}\text{Yb}$ ,  $^{162, 164}\text{Dy}$ ,  $^{186}\text{W}(n, \gamma)$ ,  $E=0.025$

eV,thermal; measured  $\sigma$ .

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**Keynumber:** 1974COYK

**Coden:** REPT BNL-18976,mf

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}, ^{164}\text{Dy}$ ,  $^{152}\text{Sm}$ ,  $^{170}\text{Yb}$ ,  $^{186}\text{W}(n,\gamma)$ ,E=epithermal; measured  $\sigma(E\gamma)$ .  $^{163}, ^{165}\text{Dy}$ ,  $^{153}\text{Sm}$  resonances deduced J.

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**Keynumber:** 1974CHYN

**Coden:** REPT BNL-19191,R E Chrien

**Keyword abstract:** NUCLEAR REACTIONS  $^{149}\text{Sm}$ ,  $^{162}, ^{164}\text{Dy}$ ,  $^{92}, ^{94}, ^{96}, ^{98}\text{Mo}(n,\gamma)$ ; measured nothing; calculated  $\sigma(E,E\gamma)$ .

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**Keynumber:** 1974CHXL

**Coden:** REPT BNL-19191,mf

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}, ^{164}\text{Dy}(n,\gamma)$ ; calculated  $\sigma$ .  $^{163}, ^{165}\text{Dy}$  deduced resonant state configurations.

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**Keynumber:** 1973COYC

**Coden:** CONF Asilomar(Photonuclear Reactions),Vol1 P309

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ ; measured  $n\gamma$ -coin.  $^{163}\text{Dy}$  deduced transitions.

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**Keynumber:** 1973COXB

**Coden:** REPT USNDC-7 P22

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ ; measured  $\sigma(E\gamma)$ .

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**Keynumber:** 1972COYV

**Coden:** CONF Budapest,Contributions,P226,G Cole,10/13/72

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ ,E <70.7 eV; measured  $I\gamma$ ; analyzed reaction mechanism.

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

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**Keynumber:** 1970VEZZ

**Coden:** REPT BNL-tr-495,V P Vertebnyi,1/3/73

**Keyword abstract:** NUCLEAR REACTIONS  $^{161}, ^{162}, ^{163}, ^{164}\text{Dy}(n,X)$ , (n, $\gamma$ ),E <1 eV; measured  $\sigma(nT)$  (E).  $^{11}\text{B}, \text{C}, \text{V}, \text{Cu}$ ,  $^{63}, ^{65}\text{Cu}, \text{Ge}$ ,  $^{70}, ^{72}, ^{73}, ^{74}\text{Ge}, \text{Cd}$ ,  $^{110}, ^{111}, ^{112}, ^{114}, ^{116}\text{Cd}, \text{Ce}$ ,  $^{140}, ^{142}\text{Ce}$ ,  $^{153}\text{Eu}, \text{Dy}$ ,  $^{161}, ^{162}, ^{163}, ^{164}\text{Dy}, \text{Ho}, \text{Er}$ ,  $^{162}, ^{164}, ^{166}, ^{167}, ^{168}, ^{170}\text{Er}, \text{Yb}, \text{Lu}, \text{Pb}(n,n)$ ,E <10 eV; measured  $\sigma(E)$ .

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**Keynumber:** 1968NA21

**Reference:** Thesis, Physikinstitut, Reaktorzentrum Seibersdorf, Austria (1968); SGAE-PH-78/1968

**Authors:** H.Nabielek

**Title:** Untersuchung von Obergangsraten Elektromagnetischer Übergänge durch Messung der Lebensdauer Angeregter Kernniveaus nach Neutroneneinfang

**Keyword abstract:** NUCLEAR REACTIONS  $^{55}\text{Mn}$ ,  $^{197}\text{Au}$ ,  $^{152}\text{Sm}$ ,  $^{162}$ ,  $^{164}\text{Dy}$ ,  $^{166}\text{Er}$ ,  $^{168}\text{Yb}(n,\gamma)$ , E not given; measured  $\gamma$ -delay.  $^{56}\text{Mn}$ ,  $^{153}\text{Sm}$ ,  $^{163}$ ,  $^{165}\text{Dy}$ ,  $^{198}\text{Au}$ ,  $^{167}\text{Er}$ ,  $^{169}\text{Yb}$  levels deduced  $T_{1/2}$ .

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**Keynumber:** 1967BO48

**Reference:** Latvijas PSR Zinatnu Akad.Vestis, Fiz.un Tehn.Zinatnu Ser. No.4, 11 (1967)

**Authors:** V.Bondarenko, P.Prokofyev

**Title:** The Coriolis Interaction Effect in  $\text{Dy}^{163}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{162}\text{Dy}(n,\gamma)$ , E=thermal; measured E(ce), I(ce).  $^{163}\text{Dy}$  transitions deduced  $\gamma$ -multipolarity.