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30 reference(s) found :

Keynumber: 1997BOZY

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.311 (1997)

Authors: V.A.Bondarenko, A.V.Afanasiev, P.T.Prokofjevs, F.Becvar, J.Honzatko, S.A.Telezhnikov, M.-E.Montero-Cabrera, S.J.Robinson, A.M.J.Spits

Title: Nuclear Structure of ^{157}Gd

Keyword abstract: NUCLEAR REACTIONS $^{156}\text{Gd}(n,\gamma)$, $^{157}\text{Gd}(n,n'\gamma)$, E=reactor; measured $E\gamma, I\gamma$. ^{157}Gd deduced levels, J, π , band structure, configurations.

Keynumber: [1995WI25](#)

Reference: Phys.Rev. C52, 2762 (1995)

Authors: K.Wisshak, F.Voss, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, M.Uhl, G.Reffo

Title: Stellar Neutron Capture Cross Sections of the Gd Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{152}, ^{154}, ^{155}, ^{156}, ^{157}, ^{158}\text{Gd}(n,\gamma)$, E=3-225 KeV; measured $\sigma(E)$; deduced Maxwellian averaged cross section for kT=10 to 100 keV.

Keynumber: [1993KO01](#)

Reference: Phys.Rev. C47, 312 (1993)

Authors: J.Kopecky, M.Uhl, R.E.Chrien

Title: Radiative Strength in the Compound Nucleus ^{157}Gd

Keyword abstract: NUCLEAR REACTIONS $^{156}\text{Gd}(n,\gamma)$, E=2,24 keV; measured capture $E\gamma, I\gamma$; deduced $\sigma(E)$. ^{157}Gd deduced E1, M1 strength function, $\langle G\gamma \rangle$ Resonance averaging.

Keynumber: 1986VO03

Reference: Nucl.Sci.Eng. 93, 43 (1986); Corrigendum Nucl.Sci.Eng. 96 343 (1987)

Authors: J.Voignier, S.Joly, G.Grenier

Title: Capture Cross Sections and Gamma-Ray Spectra from the Interaction of 0.5- to 3.0-MeV Neutrons with Nuclei in the Mass Range A = 63 to 209

Keyword abstract: NUCLEAR REACTIONS Cu, ^{89}Y , Zr, ^{93}Nb , La, Gd, ^{159}Tb , ^{181}Ta , Re, Pt, Tl, ^{209}Bi , $^{63}, ^{65}\text{Cu}$, $^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}$, $^{182}, ^{183}, ^{184}, ^{186}\text{W}$, $^{203}, ^{205}\text{Tl}(n,\gamma)$, E=0.5-3 MeV; measured absolute $\sigma(E)$; deduced capture γ -multiplicity.

Keynumber: 1986GRZS

Reference: Priv.Comm. (1986)

Authors: R.C.Greenwood

Title:

Keyword abstract: NUCLEAR REACTIONS $^{156}\text{Gd}(n,\gamma)$, E=2,24 keV; measured not abstracted. ^{157}Gd deduced levels.

Keynumber: 1986BEZD

Reference: Program and Theses, Proc.36th,Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.306 (1986)

Authors: F.Bechvarzh, M.E.Montero-Cabrera, S.A.Telezhnikov, Huynh Thuong Hiep

Title:

Keyword abstract: NUCLEAR REACTIONS $^{147}, ^{149}\text{Sm}, ^{152}, ^{154}, ^{156}\text{Gd}(n,\gamma), E=\text{resonance}$; measured γ -spectra. $^{148}, ^{150}\text{Sm}, ^{153}, ^{155}, ^{157}\text{Gd}$ deduced radiative strength function.

Keynumber: 1986BE24

Reference: Yad.Fiz. 44, 3 (1986)

Authors: F.Becvar, M.E.Montero-Cabrera, S.Pospisil, S.A.Telezhnikov

Title: Determination of Absolute Intensities of γ Transitions in Neutron Resonances

Keyword abstract: NUCLEAR REACTIONS $^{154}, ^{156}\text{Gd}(n,\gamma), (n,X), E \approx \text{resonance}$; measured $E\gamma, I\gamma, \text{transmission}$. $^{155}, ^{157}\text{Gd}$ deduced resonances, transition absolute $I\gamma$.

Keynumber: 1981VOZW

Reference: CEA-R-5089 (1981)

Authors: J.Voignier, S.Joly, G.Grenier

Title: Neutron Capture Cross Section Measurements of Rubidium, Yttrium, Niobium, Gadolinium, Tungsten, Platinum and Thallium between 0.5 and 3.0 MeV

Keyword abstract: NUCLEAR REACTIONS $\text{Rb}, \text{Y}, \text{Nb}, \text{Gd}, \text{W}, \text{Pt}, \text{Tl}, ^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}, ^{182}, ^{183}, ^{184}, ^{186}\text{W}, ^{203}, ^{205}\text{Tl}(n,\gamma), E=0.5-3 \text{ MeV}$; measured absolute σ . Integrated spectrum method.

Keynumber: 1981VOZU

Coden: REPT NEANDC(E)-210-L, Voignier

Keyword abstract: NUCLEAR REACTIONS $\text{Rb}, \text{Y}, \text{Nb}, \text{Gd}, \text{W}, \text{Pt}, \text{Tl}, ^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}, ^{182}, ^{183}, ^{184}, ^{186}\text{W}, ^{203}, ^{205}\text{Tl}(n,\gamma), E=0.5-3 \text{ MeV}$; measured absolute $\sigma(\text{capture})$ vs E . Integrated spectrum method.

Keynumber: 1981GRZY

Reference: CEA-N-2195 (1981)

Authors: G.Grenier, J.Voignier, S.Joly

Title: Capture Cross-Section Measurements for Different Elements at Neutron Energies between 0.5 and 3.0 MeV

Keyword abstract: NUCLEAR REACTIONS $\text{Rb}, ^{89}\text{Y}, ^{93}\text{Nb}, \text{Gd}, \text{W}, \text{Pt}, \text{Tl}, ^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}, ^{182}, ^{183}, ^{184}, ^{186}\text{W}, ^{203}, ^{205}\text{Tl}(n,\gamma), E=0.5-3 \text{ MeV}$; measured $\sigma(E)$. NaI scintillator, γ -detection. Statistical model.

Keynumber: 1980BEYD

Coden: CONF Kiev(Neutron Physics) Proc, Part2, P214, Bechvarzh

Keyword abstract: NUCLEAR REACTIONS $^{154}, ^{156}\text{Gd}(n,\gamma), E < 600 \text{ eV}$; measured $I\gamma$ vs E . $^{155}, ^{157}\text{Gd}$ deduced resonances.

Keynumber: 1979GRZO

Reference: Bull.Am.Phys.Soc. 24, No.7, 871, CC5 (1979)

Authors: G.Grenier, J.P.Delaroche, S.Joly, Ch.Lagrange, J.Voignier

Title: Neutron Capture Cross Sections of $\text{Y}, \text{Nb}, \text{Gd}, \text{W}$ and Au between 0.5 MeV and 3.0 MeV

Keyword abstract: NUCLEAR REACTIONS $\text{Y}, \text{Nb}, \text{Gd}, \text{W}, ^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}, ^{182}, ^{183}, ^{184}, ^{186}\text{W}, \text{Au}(n,\gamma), E=0.5 \text{ MeV}-3.0 \text{ MeV}$; measured σ . Statistical model calculations.

Keynumber: 1979CO03

Reference: Nucl.Phys. A315, 1 (1979)

Authors: C.Coceva, M.Stefanon

Title: Experimental Aspects of the Statistical Theory of Nuclear Spectra Fluctuations

Keyword abstract: NUCLEAR REACTIONS $^{156}\text{Gd}(n,\gamma), E < 224 \text{ keV}$; measured $\sigma(E)$. ^{157}Gd deduced resonances, average spacing, S-, P-wave strength functions. Enriched target. NaI(Tl) detectors.

Keynumber: 1978KO04

Reference: Yad.Fiz. 27, 10 (1978); Sov.J.Nucl.Phys. 27, 5 (1978)

Authors: V.N.Kononov, B.D.Yurlov, E.D.Poletaev, V.M.Timokhov

Title: Fast-Neutron Capture Cross Sections for Even-Even Isotopes of Neodymium, Samarium, Gadolinium, and Erbium

Keyword abstract: NUCLEAR REACTIONS $^{142, 144, 146, 148, 150}\text{Nd}, ^{144, 148, 150, 152, 154}\text{Sm}, ^{156, 158, 160}\text{Gd}, ^{166, 168}, ^{170}\text{Er}(n,\gamma), E=5-350 \text{ keV}$; measured $\sigma(E)$.

Keynumber: 1978COZB

Coden: REPT NEANDC(E)-192-U,V7,P10,Coceva

Keyword abstract: NUCLEAR REACTIONS $^{156}\text{Gd}(n,n), (n,\gamma), E$ not given; measured $\sigma(E)$. ^{156}Gd levels deduced resonance parameters.

Keynumber: 1977GRZL

Reference: Bull.Amer.Phys.Soc. 22, No.8, 1032, ED9 (1977)

Authors: R.C.Greenwood, R.E.Chrien

Title: Distribution of Low-Spin States in Odd-Gd Isotopes Observed from 2- and 24-keV Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS $^{154, 156, 158, 160}\text{Gd}(n,\gamma), E=2, 24 \text{ keV}$; measured γ -spectra. $^{155, 157, 159, 161}\text{Gd}$ deduced level distribution.

Keynumber: 1976GRZN

Coden: PREPRINT R C Greenwood, 8/4/76

Keyword abstract: NUCLEAR REACTIONS Mn, $^{155, 156, 157}\text{Gd}(n,\gamma), E=2 \text{ keV}$; $^{232}\text{Th}(n,\gamma), E=2, 24 \text{ keV}$; measured $\sigma(E\gamma)$. $^{156, 157, 158}\text{Gd}, ^{233}\text{Th}$ deduced transitions.

Keynumber: 1975GRZX

Coden: REPT ERDA/NDC-2, p35, Greenwood

Keyword abstract: NUCLEAR REACTIONS $^{154, 156}\text{Gd}(n,\gamma), E=24 \text{ keV}$; measured $\sigma(E\gamma)$. $^{155, 157}\text{Gd}$ deduced resonances, J, π .

Keynumber: 1975GRZB

Reference: Proc. of Second Int.Symp. on Neutron Capture Gamma Ray Spectroscopy and Related Topics, Petten, 1974, p.353 (1975)

Authors: R.C.Greenwood, C.W.Reich, R.E.Chrien, K.Rimawi

Title: Energy Levels of ^{155}Gd and ^{157}Gd Populated by the (n,γ) Reaction using 24.5 keV Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{154, 156}\text{Gd}(n,\gamma), E=24 \text{ keV}$; measured $\sigma(E\gamma)$. $^{155, 157}\text{Gd}$ deduced levels, J, π .

Keynumber: 1975CHZT

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

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

Keynumber: 1974SH03

Reference: Yad.Fiz. 19, 5 (1974); Sov.J.Nucl.Phys. 19, 2 (1974)

Authors: V.S.Shorin, V.N.Kononov, E.D.Poletaev

Title: Neutron Radiative-Capture Cross Sections in the Energy Region 5-70 keV For Gd and Er Isotopes

Keyword abstract: NUCLEAR REACTIONS ^{154, 155, 156, 157, 158, 160}Gd(n,γ), ^{166, 167, 168, 170}Er (n,γ), E=5-70 keV; measured σ(E).

Keynumber: 1974RIZB

Coden: REPT USNDC-11 P47

Keyword abstract: NUCLEAR REACTIONS Ta,Mo,Nb, ^{140, 142}Ce, ^{154, 155, 156, 157}Gd, Ho(n,γ), E=24 keV; measured σ. ^{93, 95, 97, 99}Mo deduced resonances, J, π.

Keynumber: 1974GRZE

Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy), P119

Keyword abstract: NUCLEAR REACTIONS ^{154, 156}Gd(n,γ), E=24.5 keV; measured Eγ, Iγ. ^{155, 157}Gd deduced resonances.

Keynumber: 1974GRZD

Coden: REPT USNDC-11 P4

Keyword abstract: NUCLEAR REACTIONS ^{154, 156}Gd(n,γ), E=24.5 keV; measured Eγ, Iγ. ^{155, 157}Gd deduced resonances.

Keynumber: 1974GRYR

Coden: JOUR BAPSA 19 1031 EE9

Keyword abstract: NUCLEAR REACTIONS ^{154, 156}Gd(n,γ), E=24 keV; measured Eγ, Iγ. ^{155, 157}Gd deduced levels, J, π.

Keynumber: 1974COYZ

Coden: REPT USNDC-11 P42

Keyword abstract: NUCLEAR REACTIONS ¹⁵⁴Sm, ¹⁷⁰Yb, ¹⁸⁶W, ¹⁵⁶Gd(n,γ); measured σ(Eγ).

Keynumber: 1974CHZG

Reference: USNDC-11, p.46 (1974)

Authors: R.E.Chrien, K.Rimawi, R.C.Greenwood, G.W.Cole

Title: Nuclear Structure Studies Using the Fast Chopper

Keyword abstract: NUCLEAR REACTIONS ^{94, 96, 97}Mo, ^{154, 156, 157}Gd(n,γ); measured Eγ, Iγ.

Keynumber: 1973LAYG

Reference: RCN-191 (1973)

Authors: G.Lautenbach

Title: Calculated Neutron Absorption Cross Sections of 75 Fission Products

Keyword abstract: NUCLEAR REACTIONS ⁸¹Br, ^{83, 84, 85, 86}Kr, ^{85, 87}Rb, ^{88, 90}Sr, ⁸⁹Y, ^{91, 92, 93, 94, 95, 96}Zr, ^{95, 97, 98, 100}Mo, ⁹⁹Tc, ^{101, 102, 104, 106}Ru, ¹⁰³Rh, ^{105, 106, 107, 108, 110}Pd, ¹⁰⁹Ag, ^{111, 112, 113, 114}Cd, ¹¹⁵In, ^{126, 128, 130}Te, ^{127, 129}I, ^{131, 132, 134, 136}Xe, ^{133, 135, 137}Cs, ¹³⁸Ba, ¹³⁹La, ^{140, 142}Ce, ¹⁴¹Pr, ^{143, 144, 145, 146, 148, 150}Nd, ¹⁴⁷Pm, ^{147, 148, 149, 150, 151, 152, 154}Sm, ^{153, 154, 155}Eu, ^{155, 156, 157, 158}Gd, ¹⁵⁹Tb(n,γ); calculated σ(E).

Keynumber: 1971GR42

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 35, 1644 (1971); Bull.Acad.Sci.USSR, Phys.Ser. 35, 1497 (1972)

Authors: L.V.Groshev, A.M.Demidov, L.L.Sokolovskii

Title: Radiations from Even-Odd Samarium and Gadolinium Nuclei Following Thermal-Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , 156 , 158 , $^{160}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, Q. ^{155}Sm , 157 , 159 , ^{161}Gd deduced levels.

Keynumber: 1970BO29

Reference: Phys.Rev. C2, 1951 (1970)

Authors: L.M.Bollinger, G.E.Thomas

Title: Average-Resonance Method of Neutron-Capture γ -Ray Spectroscopy: States of ^{106}Pd , ^{156}Gd , ^{158}Gd , ^{166}Ho , and ^{168}Er

Keyword abstract: NUCLEAR REACTIONS 102 , 104 , ^{105}Pd , 154 , 155 , 156 , ^{157}Gd , 164 , 166 , 167 , ^{168}Er , $^{165}\text{Ho}(n,\gamma)$, E=thermal, epithermal; measured $E\gamma$, $I\gamma$; deduced Q. 103 , ^{105}Pd , 155 , ^{157}Gd , 165 , 167 , ^{169}Er deduced levels. ^{106}Pd , 156 , ^{158}Gd , ^{166}Ho , ^{168}Er deduced levels, J, π .