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56 reference(s) found :

Keynumber: 2000VA13

Reference: Fiz.Elem.Chastits At.Yadra 31, 350 (2000); Phys.Part.Nucl. 31, 170 (2000)

Authors: E.V.Vasileva, A.M.Sukhovoi, V.A.Khitrov

Title: Influence of the Structure of Excited States in Heavy Ions on the Process of Cascade γ -Decay at Energies below the Neutron Binding Energy

Keyword abstract: NUCLEAR REACTIONS ^{127}I , ^{155}Gd , ^{173}Yb , ^{180}Hf , ^{182}W , ^{189}Os , ^{197}Au (n,γ), E not given; analyzed level densities, dipole strength distributions, two-step cascade intensities following neutron capture; deduced structure effects.

Keynumber: 2000OHZZ

Reference: BNL-NCS-67469 (2000)

Authors: S.-Y.Oh, J.Chang, S.Mughabghab

Title: Neutron Cross Section Evaluations of Fission Products Below the Fast Energy Region

Keyword abstract: NUCLEAR REACTIONS ^{95}Mo , ^{99}Tc , ^{101}Ru , ^{103}Rh , ^{105}Pd , ^{109}Ag , ^{131}Xe , ^{133}Cs , ^{141}Pr , ^{143}Nd , ^{147}Eu , ^{149}Sm , ^{150}Sm , ^{151}Gd , ^{152}Sm , ^{153}Eu , ^{155}Gd (n,γ), E < 250 keV; compiled, analyzed capture σ , resonance parameters, related features. Comparison with data, previous evaluations.

Keynumber: 2000BEZQ

Reference: Proc.10th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Santa Fe, New Mexico, 30 August-3 September 1999, S.Wender, Ed., p.657 (2000); AIP Conf.Proc. 529 (2000)

Authors: F.Becvar, M.Krticka, I.Tomandl, J.Honzatko, F.Voss, K.Wisshak, F.Kappeler

Title: Neutron Capture in $^{155,157,158}\text{Gd}$ and ^{149}Sm : A search for scissors M1 resonances build on excited states

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm , ^{155}Gd , ^{157}Gd , ^{158}Gd (n,γ), E=low; measured $E\gamma, I\gamma$. ^{150}Sm , ^{156}Sm , ^{158}Gd deduced scissors resonance features.

Keynumber: 2000AK03

Reference: Physica B276-278, 809 (2000)

Authors: V.L.Aksenov, L.Cser, N.A.Gundorin, Yu.V.Nikitenko, Yu.P.Popov

Title: Observation of Neutron Standing Waves at Total Reflection of Polarized Neutrons by Precision Gamma-Spectroscopy

Keyword abstract: NUCLEAR REACTIONS ^{155}Gd , ^{157}Gd (polarized n,γ), E=thermal; measured $E\gamma, I\gamma$ vs neutron wavelength, polarization; deduced neutron standing waves in layered glass/Fe/Gd structure.

Keynumber: 1999SU03

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

Authors: A.M.Sukhovoi, V.A.Khitrov

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

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

Keynumber: 1999HO33

Reference: Pure Appl.Chem. 71, 2309 (1999)

Authors: N.E.Holden

Title: Temperature Dependence of the Westcott g-Factor for Neutron Reactions in Activation Analysis (Technical Report)

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{113}Cd , ^{115}In , ^{135}Xe , ^{148}Pm , ^{149}Sm , ^{151}Sm , ^{151}U , ^{152}U , ^{153}Eu , ^{154}Eu , ^{155}Eu , ^{155}Gd , ^{157}Gd , ^{164}Dy , ^{175}Lu , ^{176}Lu , ^{177}Hf , ^{182}Ta , ^{185}Re , ^{187}Re , ^{197}Au , ^{231}Pa , ^{233}Pa , ^{235}U , ^{238}U (n,γ), E=low; calculated Westcott g-factors vs temperature.

Keynumber: 1999BO14

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

Authors: S.T.Boneva, E.V.Vasilieva, L.I.Simonova, V.A.Bondarenko, A.M.Sukhovoi, V.A.Khitrov

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

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

Keynumber: [1999BO10](#)

Reference: Phys.Rev. C59, 2432 (1999)

Authors: H.G.Borner, M.Jentschel, N.V.Zamfir, R.F.Casten, M.Krticka, W.Andrejtscheff

Title: Ultrahigh Resolution Study of Collective Modes in ^{158}Gd

Keyword abstract: NUCLEAR REACTIONS ^{157}Gd (n,γ), E=thermal; measured $E\gamma$, $I\gamma$. ^{158}Gd deduced levels $J, \pi, T_{1/2}, B(E2)$, no two-phonon vibration. Gamma-ray induced Doppler broadening technique.

Keynumber: 1997SU29

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

Authors: A.M.Sukhovoi, V.A.Khitrov

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

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

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

Keynumber: 1994TAZU

Reference: Proc.8th Int.Symposium on Capture Gamma-Ray Spectroscopy and Related Topic, Fribourg, Switzerland, 20-24 September 1993, J.Kern, Ed., World Scientific, Singapore, p.460 (1994)

Authors: K.T.Tang, M.K.Harder, A.Williams

Title: A Development of the Decay Scheme of ^{158}Gd

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. ^{158}Gd deduced transitions, levels J, π .

Keynumber: 1994MA66

Reference: Nucl.Instrum.Methods Phys.Res. B94, 203 (1994)

Authors: A.A.Makletsov, A.E.Petrov, V.V.Gann

Title: Evaluation of the Displacement Energy of Gd Atoms in $\text{GdBa}_2\text{Cu}_3\text{O}(7-\delta)$ from Experimental Data

Keyword abstract: NUCLEAR REACTIONS $^{155}, ^{157}\text{Gd}(n,\gamma)$, E=thermal; analyzed γ spectra; deduced Gd atoms displacement energy in $\text{GdBa}_2\text{Cu}_3\text{O}(7-\delta)$. Monte Carlo technique.

Keynumber: 1994AL41

Reference: J.Phys.(London) G20, 1943 (1994)

Authors: M.A.Ali, V.A.Khitrov, Yu.V.Kholnov, A.M.Sukhovoij, A.V.Voinov

Title: Properties of the ^{158}Gd Compound State Gamma-Decay Cascades

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma, \gamma\gamma$ -coin, two-step cascades. ^{158}Gd deduced levels, level densities, cascade $I\gamma$. Model comparison.

Keynumber: 1992ALZL

Reference: Program and Thesis, Proc.42nd Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Alma-Ata, p.81 (1992)

Authors: M.A.Ali, E.V.Vasileva, A.V.Voinov, V.D.Kulik, Le Khong Kkhem, Yu.P.Popov, A.M.Sukhovoij, F.D.Khang, V.A.Khitrov, Yu.V.Kholnov, V.N.Shilin

Title: Decay of the 7973-keV ^{158}Gd Compound State Excited in (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured γ -spectra, $\gamma\gamma$ -coin. ^{158}Gd deduced levels, decay features. Amplitude summation method.

Keynumber: 1990DZ01

Reference: Yad.Fiz. 51, 336 (1990); Sov.J.Nucl.Phys. 51, 215 (1990)

Authors: L.Z.Dzhilavyan, V.L.Kauts, V.I.Furman, A.Yu.Chuprikov

Title: Some Problems Related to the Population of Isomeric States

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; $^{115}\text{In}(\gamma,\gamma)$, E < 12 MeV; $^{180}\text{Hf}(\gamma,\gamma')$, E = 3-9 MeV; analyzed data; deduced isomeric state population mechanism.

Keynumber: 1990BE51

Reference: Yad.Fiz. 52, 625 (1990); Sov.J.Nucl.Phys. 52, 401 (1990)

Authors: F.N.Belyaev, V.P.Bolotsky, B.V.Efimov, G.V.Muradyan

Title: Study of $^{155}, ^{157}\text{Gd}$ Resonances by γ Ray Multiplicity

Keyword abstract: NUCLEAR REACTIONS $^{155}, ^{157}\text{Gd}(n,\gamma)$, E \leq 800 eV; measured γ -multiplicity. $^{156}, ^{158}\text{Gd}$ deduced resonances, J, π , strength functions, giant resonances.

Keynumber: 1989NA21

Reference: Ann.Nucl.Energy 16, 589 (1989)

Authors: Y.Nakajima, I.Tsubone, M.Mizumoto, Y.Furuta, M.Ohkubo, M.Sugimoto, Y.Kawasaki

Title: Neutron Capture Cross Section Measurements of ^{155}Gd and ^{157}Gd from 1.1 to 235 keV

Keyword abstract: NUCLEAR REACTIONS $^{155}, ^{157}\text{Gd}(n,\gamma), E=1.1\text{-}235 \text{ keV}$; measured average capture $\sigma(E)$. $^{156}, ^{158}\text{Gd}$ deduced average resonance parameters. Enriched target.

Keynumber: 1989DZZX

Reference: JINR-P4-89-320 (1989)

Authors: L.Z.Dzhilavyan, V.L.Kauts, V.I.Furman, A.Yu.Chuprikov

Title: On Some Questions of the Population of Isomeric States

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma), E=\text{thermal}$; calculated $\sigma(E\gamma)$. ^{158}Gd levels deduced Γ . ^{115}In , $^{180}\text{Hf}(\gamma,\gamma'), E=3\text{-}10 \text{ MeV}$; calculated ^{115}In , ^{180}Hf isomeric σ ratios vs E , production $\sigma(E)$. Statistical approach.

Keynumber: 1988BE32

Reference: Astrophys.J. 331, 1047 (1988)

Authors: H.Beer, R.L.Macklin

Title: The ^{151}Sm Branching; A probe for the irradiation time scale of the s-process

Keyword abstract: NUCLEAR REACTIONS $^{152}, ^{154}, ^{155}, ^{157}\text{Gd}(n,\gamma), E=3\text{-}500 \text{ keV}$; measured $\sigma(E)$; deduced Maxwellian averaged $\langle s \rangle$ s-process time scale.

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

Keynumber: 1985DA26

Reference: At.Energ. 58, 178 (1985); Sov.At.Energy 58, 209 (1985)

Authors: B.V.Danilin, B.V.Efimov, G.V.Muradyan, F.N.Belyaev, V.P.Bolotsky

Title: Method of Investigation of γ -Ray Cascades from the Multiplicity Spectrum and Low-Energy γ -Transitions

Keyword abstract: NUCLEAR REACTIONS $^{155}, ^{157}\text{Gd}(n,\gamma), E$ not given; measured $E\gamma, I\gamma$. $^{156}, ^{158}\text{Gd}$ deduced rotational band γ -cascades.

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.

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 Rb,Y,Nb,Gd,W,Pt,Tl, 155 , 156 , 157 , 158 , 160 Gd, 182 , 183 , 184 , 186 W, 203 , 205 Tl(n,γ),E=0.5-3 MeV; measured absolute σ . Integrated spectrum method.

Keynumber: 1981VOZU

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

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

Keynumber: 1980POZZ

Coden: REPT JINR-P3-12750,4/28/80,Popov

Keyword abstract: NUCLEAR REACTIONS 95 Mo, 157 Gd(n,γ),E=resonance; measured $E\gamma,I\gamma$. 96 Mo transition deduced correlation to reduced neutron width. 158 Gd transitions deduced stronger fluctuation than statistical model predictions.

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 Y,Nb,Gd,W and Au between 0.5 MeV and 3.0 MeV

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

Keynumber: 1978GR14

Reference: Nucl.Phys. A304, 327 (1978)

Authors: R.C.Greenwood, C.W.Reich, H.A.Baader, H.R.Koch, D.Breitig, O.W.B.Schult, B.Fogelberg, A.Backlin, W.Mampe, T.von Egidy, E.Schreckenbach

Title: Collective and Two-Quasiparticle States in 158 Gd Observed Through Study of Radiative Neutron Capture in 157 Gd

Keyword abstract: NUCLEAR REACTIONS 157 Gd(n,γ),E=thermal, averaged-resonance; measured $E\gamma,I\gamma$, I(ce), $\gamma\gamma$ -coin. 158 Gd deduced levels,J, π ,ICC,B(λ),neutron binding energy. Ge(Li) detectors,curved-crystal spectrometer,magnetic-electron spectrometers. Enriched, natural targets.

Keynumber: 1976GRZN

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

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

Keynumber: 1975KO10

Reference: Acta Phys.Austr. 41, 335 (1975)

Authors: H.-P.Korn, P.Weinzierl, P.Riehs

Title: The Shape of γ -Ray Spectra after Thermal Neutron Capture in Coincidence to Low Energy γ -Transitions

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm , ^{157}Gd , $^{181}\text{Ta}(\text{n},\gamma)$, E=thermal; measured $\gamma\gamma$ -coin, γ -shape spectra. ^{150}Sm , ^{158}Gd , ^{182}Ta resonances deduced J.

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}Ta , ^{155}Ta , ^{156}Ta , ^{157}Ta , ^{158}Ta , $^{160}\text{Gd}(\text{n},\gamma)$, ^{166}Er , ^{167}Er , ^{168}Er , ^{170}Er (n,γ), E=5-70 keV; measured $\sigma(E)$.

Keynumber: 1974RIZB

Coden: REPT USNDC-11 P47

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

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}Mo , ^{96}Mo , ^{97}Mo , ^{154}Gd , ^{156}Gd , $^{157}\text{Gd}(\text{n},\gamma)$; measured $E\gamma$, I γ .

Keynumber: 1973WH04

Reference: Nucl.Phys. A217, 410 (1973)

Authors: D.H.White, T.A.Siddiqi

Title: Gamma-Ray Spectra and Positive Parity Bands in ^{158}Gd

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$, E=thermal; measured E γ , I γ ; deduced Q. ^{158}Gd deduced levels, J, π , B(E2) ratios. Enriched target. Ge(Li) detectors.

Keynumber: 1973LAYG

Reference: RCN-191 (1973)

Authors: G.Lautenbach

Title: Calculated Neutron Absorption Cross Sections of 75 Fission Products

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

Keynumber: 1973KAZL

Coden: REPT JINR-P3-6948,E N Karzhavina

Keyword abstract: NUCLEAR REACTIONS ^{111}Cd , ^{113}Cd , ^{157}Gd , ^{161}Dy , $^{163}\text{Dy}(\text{n},\gamma)$, E>thermal; deduced ^{112}Cd , ^{114}Cd , ^{158}Gd , ^{162}Dy , ^{164}Dy resonances deduced J.

Keynumber: 1973DA30

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 37, 1129 (1973); Bull.Acad.Sci.USSR, Phys.Ser. 37, No.5, 190 (1974)

Authors: L.S.Danelyan

Title: Nonstatic Effects in γ -Ray Spectra Emitted during the Decay of Neutron Resonances in ^{147}Sm , ^{157}Gd , and ^{177}Hf

Keyword abstract: NUCLEAR REACTIONS ^{147}Sm , ^{157}Gd , $^{177}\text{Hf}(n,\gamma)$, E=resonance; measured γ -spectra; deduced non-statistical effects.

Keynumber: 1972WHZV

Coden: JOUR BAPSA 17 899,D White,10/26/72

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$; deduced Q. ^{158}Gd deduced levels, γ -branching.

Keynumber: 1972WHZU

Reference: Bull.Amer.Phys.Soc. 17, No.10, 899, BB9 (1972); Priv.Comm. (1973)

Authors: D.H.White, T.A.Siddiqi

Title: Interband Transition Rates in ^{158}Gd Following Thermal Neutron Capture in ^{157}Gd

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. Deduced Q. ^{158}Gd deduced levels, γ -branching.

Keynumber: 1972SCYT

Coden: CONF Teddington(Atomic Masses, Fund Constants),P123

Keyword abstract: NUCLEAR REACTIONS $^{107}, ^{109}\text{Ag}$, ^{139}La , ^{150}Sm , $^{151}, ^{152}\text{Eu}$, $^{155}, ^{157}\text{Gd}$, ^{159}Tb , $^{168}, ^{171}, ^{174}\text{Yb}$, ^{178}Hf , $^{181}, ^{182}\text{Ta}$, $^{197}, ^{198}\text{Au}$, ^{199}Hg , $^{232}\text{Th}(n,\gamma)$; measured $E\gamma, ^{108}, ^{110}\text{Ag}$, ^{140}La , ^{151}Sm , $^{152}, ^{153}\text{Eu}$, $^{156}, ^{158}\text{Gd}$, ^{160}Tb , $^{169}, ^{172}, ^{175}\text{Yb}$, ^{179}Hg , $^{182}, ^{183}\text{Ta}$, $^{198}, ^{199}\text{Au}$, ^{200}Hg , ^{233}Th deduced transitions.

Keynumber: 1972BF02

Reference: Latv.PSR Zinat.Akad.Vestis, Fiz.Teh.Zinat.Ser. No.5, 3 (1972)

Authors: Y.Y.Berzin, A.E.Kruminja, L.A.Neiburg, P.T.Prokofev

Title: Conversion Electron and γ -Ray Spectra from Thermal Neutron Capture in ^{157}Gd

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured E(ce), I(ce); deduced ICC. ^{158}Gd deduced transitions, γ -multipolarities.

Keynumber: 1972BAZB

Reference: NP-19337, p.6 (1972)

Authors: A.Backlin, B.Fogelberg, G.Hedin, T.Nagarajan

Title: (n, γ) Spectroscopy

Keyword abstract: RADIOACTIVITY $^{122}, ^{124}\text{In}$, $^{119}, ^{121}, ^{123}\text{Cd}$, ^{119}Ag , ^{191}Pt , $^{185}, ^{186}, ^{188}\text{Ir}$, ^{186}Re ; $^{122}, ^{124}\text{Sn}$, $^{119}, ^{121}, ^{123}\text{In}$, ^{191}Ir , $^{185}, ^{186}, ^{188}\text{Os}$ deduced levels.

Keyword abstract: NUCLEAR REACTIONS $^{155}, ^{157}\text{Gd}$, ^{235}U , $^{239}\text{Pu}(n,\gamma)$; $^{156}, ^{158}\text{Gd}$, ^{236}U , ^{240}Pu deduced levels.

Keynumber: 1971PA35

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 35, 1593 (1971); Bull.Acad.Sci.USSR, Phys.Ser. 35, 1453 (1972)

Authors: Y.N.Panin, V.I.Pelekhov, V.A.Ivanov

Title: The Multipole Order Predominant in Radiative Transitions of Energy $>2m_0c^2$ in ^{114}Cd , ^{150}Sm , and ^{158}Gd Following Thermal-Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{149}Sm , $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $I(\beta+)$, $I(\beta-)$. ^{114}Cd , ^{150}Sm , ^{158}Gd transitions deduced pair ICC, dominant multipolarity.

Keynumber: 1971BAYF

Coden: REPT RISO-M-1307,12/2/71

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$. ^{158}Gd deduced levels, J, π . Curved-crystal spectrometer.

Keynumber: 1970PA20

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 34, 804 (1970); Bull.Acad.Sci.USSR, Phys.Ser. 34, 714 (1971)

Authors: Y.N.Panin, V.I.Pelekhov

Title: High-Energy Internal-Conversion Electrons Emitted by ^{150}Sm and ^{158}Gd Produced in (n,γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm , $^{157}\text{Gd}(n,\gamma)$, E=th; measured $E\gamma$, $I(ce)$. ^{150}Sm , ^{158}Gd deduced transitions, ICC.

Keynumber: 1970FR03

Reference: Nucl.Phys. A146, 337 (1970)

Authors: S.J.Friesenhahn, M.P.Fricke, D.G.Costello, W.M.Lopez, A.D.Carlson

Title: Neutron Resonance Parameters and Radiative Capture Cross Section of Gd From 3 eV to 750 keV

Keyword abstract: NUCLEAR REACTIONS 155 , $^{157}\text{Gd}(n,\gamma)$, E=3 eV-20 keV; $\text{Gd}(n,\gamma)$, E=1-750 keV; measured $\sigma(E)$. 156 , ^{158}Gd deduced resonances, resonance parameters. Natural, enriched targets.

Keynumber: 1970EI04

Reference: Nucl.Phys. A147, 150 (1970)

Authors: J.Eichler, F.Djadali

Title: Measurement of the Average Circular γ -Polarization and Determination of Spins for Compound States Formed in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{95}Mo , ^{113}Cd , ^{115}In , 121 , ^{123}Sb , ^{127}I , ^{133}Cs , ^{141}Pr , 155 , ^{157}Gd , ^{159}Tb , ^{165}Ho , ^{181}Ta , ^{199}Hg (polarized n,γ), E = thermal; measured average γ -circular polarization. ^{96}Mo , ^{114}Cd , ^{116}In , 122 , ^{124}Sb , ^{128}I , ^{134}Cs , ^{142}Pr , 156 , ^{158}Gd , ^{160}Tb , ^{166}Ho , ^{182}Ta , ^{200}Hg deduced J for compound state. Natural targets.

Keynumber: 1970DA25

Reference: Zh.Eksp.Teor.Fiz. 58, 456 (1970); Sov.Phys.JETP 31, 242 (1970)

Authors: L.S.Danelyan, B.V.Efimov, S.K.Sotnikov

Title: Intensities of Partial Radiative Transitions to Rotational and Vibrational Bands of Gd^{155} and Gd^{157} Resonances

Keyword abstract: NUCLEAR REACTIONS 155 , $^{157}\text{Gd}(n,\gamma)$, E < 150 eV; measured $I\gamma$. 156 , ^{158}Gd deduced resonances. ^{156}Gd resonances deduced J .

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 , $^{165}\text{Ho}(\text{n},\gamma)$, 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 .

Keynumber: 1970BE81

Reference: Latv.PSR Zinat.Akad.Vestis, Fiz.Teh.Zinat.Ser. No.5, 124 (1970)

Authors: M.R.Beinin, Y.Y.Berzin, P.T.Prokofev, L.I.Simonova, O.A.Stolyarov

Title: Spectra of Monoenergetic Positrons from Internal Conversion in the Reaction $^{157}\text{Gd}(\text{n},\gamma)^{158}\text{Gd}$

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$, E=thermal; measured $E(\beta+), E(\beta-)$ from pair conversion, deduced $E\gamma$. ^{158}Gd deduced transitions.

Keynumber: 1970BAYK

Reference: Thesis, Technischen Univ., Munich (1970); RISO-M-1307 (1971)

Authors: H.A.Baader

Title: Untersuchung des Kernniveauschemas von Gd 158 mittels der (n,γ) -Reaktion

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$, E=thermal; measured $E\gamma, I\gamma$. ^{158}Gd deduced levels,J, π ,B(EL).

Keynumber: 1969BEZB

Reference: Program and Theses, Proc.19th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Erevan, p.116 (1969)

Authors: Y.Y.Berzin, A.E.Kruminya, P.T.Prokofev

Title: Spectrum of Conversion Electrons from ^{158}Gd in the Energy Range 70-230 keV

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$, E=th; measured $E\gamma, I(\text{ce})$.

Keynumber: 1968SPZZ
Reference: IN-1218, p.123 (1968)

Authors: R.R.Spencer, K.T.Faler, R.A.Harlan

Title: Resonance Neutron-Capture Gamma-Ray Studies of ^{148}Sm , ^{156}Gd , ^{158}Gd , and ^{164}Dy

Keyword abstract: NUCLEAR REACTIONS ^{147}Sm , 155 , ^{157}Gd , $^{163}\text{Dy}(\text{n},\gamma)$, E=resonance; measured $E\gamma, I\gamma$; deduced Q. ^{148}Sm , 156 , ^{158}Gd , ^{164}Dy deduced levels.

Keynumber: 1968GRZW
Reference: Bull.Am.Phys.Soc. 13, No.11, 1391, BG14 (1968)
Authors: R.C.Greenwood, C.W.Reich

Title: Levels in ^{158}Gd from the $^{157}\text{Gd}(\text{n},\gamma)^{158}\text{Gd}$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$; measured $E\gamma, I\gamma$. ^{158}Gd deduced levels.

Keynumber: 1968BE71
Reference: Latvijas PSR Zinatnu Akad.Vestis, Fiz.Teh.Zinatnu Ser., No.2, 3 (1968)
Authors: Y.Y.Berzin, A.E.Legzdinya, P.T.Prokofev

Title: Spectrum of the Conversion Electrons Emitted in the Reaction $^{157}\text{Gd}(\text{n},\gamma)^{158}\text{Gd}$

Keyword abstract: NUCLEAR REACTIONS $^{157}\text{Gd}(\text{n},\gamma)$, E=thermal; measured $E(\text{ce}), I(\text{ce})$. ^{158}Gd deduced transitions.

Keynumber: 1967RA24

Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba Press, p.278(1967)

Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai

Title: Determination of (n, γ) Reaction Q Values from Capture γ -Ray Spectra

Keyword abstract: NUCLEAR REACTIONS ^6Li , ^7Li , ^9Be , ^{10}B , ^{12}C , ^{14}N , ^{19}F , ^{23}Na , ^{24}Mg , ^{25}Mg , ^{26}Mg , ^{27}Al , ^{28}Si , ^{31}P , ^{32}S , ^{35}Cl , ^{40}Ca , ^{45}Sc , ^{48}Ti , ^{51}V , ^{55}Mn , ^{54}Fe , ^{56}Fe , ^{59}Co , ^{58}Ni , ^{60}Ni , ^{63}Cu , ^{65}Cu , ^{66}Zn , ^{67}Zn , ^{73}Ge , ^{76}Se , ^{85}Rb , ^{87}Rb , ^{89}Y , ^{93}Nb , ^{103}Rh , ^{113}Cd , ^{123}Te , ^{133}Cs , ^{139}La , ^{141}Pr , ^{149}Sm , ^{153}Eu , ^{157}Gd , ^{159}Tb , ^{165}Ho , ^{167}Er , ^{169}Tm , ^{181}Ta , ^{182}W , ^{195}Pt , ^{197}Au , ^{199}Hg , ^{203}Tl , ^{207}Pb (n, γ), E = thermal; measured E γ ; deduced Q. Natural targets.
