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79 reference(s) found :

Keynumber: 2001VA11
Reference: Yad.Fiz. 64, No 2, 195 (2001); Phys.Atomic Nuclei 64, 153 (2001)
Authors: E.V.Vasilieva, A.M.Sukhovoj, V.A.Khitrov
Title: Direct Experimental Estimate of Parameters That Determine the Cascade Gamma Decay of Compound States of Heavy Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{113}Cd, ^{123}Te, ^{127}I, ^{149}Sm, ^{155}Gd, ^{159}Tb, ^{169}Tm, ^{180}Hf, ^{189}Os, ^{191}Ir, ^{195}Pt, ^{199}Hg(n,γ),E=thermal; measured Eγ, 2-step photon cascades. ^{114}Cd, ^{124}Te, ^{128}I, ^{150}Sm, ^{156}Gd, ^{160}Tb, ^{170}Tm, ^{181}Hf, ^{190}Os, ^{192}Ir, ^{196}Pt, ^{200}Hg deduced level densities vs excitation energy, sum of radiative strengths for E1 and M1 transitions. Comparison with Statistical Model calculations.

Keynumber: 2000SHZR
Reference: INDC(CPR)-052/L, p.43 (2000)
Authors: Q.Shen
Title: Calculations of n + $^{144,147\text{-}152,154}$Sm Reactions in the Energy Region up to 20 MeV
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{147}, ^{148}, ^{149}, ^{150}, ^{151}, ^{152}, ^{154}Sm(n,X), (n,n), (n,xn), (n,γ),E <20 MeV; calculated σ. Comparisons with data.

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}, ^{145}Nd, ^{147}, ^{149}, ^{150}, ^{151}, ^{152}Sm, ^{153}Eu, ^{155}, ^{157}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}Gd and ^{149}Sm: A search for scissors M1 resonances build on excited states
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm, ^{155}, ^{157}, ^{158}Gd(n,γ),E=low; measured Eγ,Iγ. ^{150}Sm, ^{156}, ^{158}, ^{159}Gd deduced scissors resonance features.

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}, ^{157}Gd, ^{162}, ^{163}, ^{164}Dy, ^{167}Er, ^{173}, ^{174}Yb, ^{177}, ^{178}, ^{180}Hf, ^{187}, ^{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}, ^{185}W(n,γ),E=thermal; analyzed Iγ; 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}, ^{151}Sm, ^{151}, ^{152}, ^{153}, ^{154}, ^{155}Eu, ^{155}, ^{157}Gd, ^{164}Dy, ^{175}, ^{176}Lu, ^{177}Hf, ^{182}Ta, ^{185}, ^{187}Re, ^{197}Au, ^{231}, ^{233}Pa, ^{235}, ^{238}U (n,γ),E=low; calculated Westcott g-factors vs temperature.

Keynumber: 1999DU16
Reference: J.Nucl.Sci.Technol.(Tokyo) 36, 865 (1999)
Authors: B.Duamet, M.Igashira, M.Mizumachi, S.Mizuno, J.-I.Hori, K.Masuda, T.Ohsaki
Title: Measurement of keV-Neutron Capture Cross Sections and Capture Gamma-Ray Spectra of ^{147,148,149,150,152,154}Sm
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{148}, ^{149}, ^{150}, ^{152}, ^{154}Sm(n,γ),E=10-90,550 keV; measured Eγ,Iγ,capture σ. Comparison with previous results.

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}, ^{124}Te, ^{127}I, ^{134}, ^{136}, ^{137}, ^{138}Ba, ^{139}La, ^{142}, ^{143}, ^{145}Nd, ^{149}Sm, ^{155}, ^{157}Gd, ^{159}Tb, ^{162}, ^{163}, ^{164}Dy, ^{165}Ho, ^{167}Er, ^{169}Tm, ^{173}, ^{174}, ^{176}Yb, ^{175}, ^{176}Lu, ^{177}, ^{178}, ^{179}, ^{180}Hf, ^{181}Ta, ^{182}, ^{186}W, ^{187}, ^{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: 1998AN26
Reference: Phys.Lett. 437B, 249 (1998)
Authors: W.Andrejtscheff, C.Doll, F.Becvar, H.G.Borner
Title: Octupole Collectivity and Spin Dependence of the E1 Transition Moments in ^{150}Sm
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured Doppler-broadened Eγ,Iγ. ^{150}Sm deduced levels $T_{1/2}$,transitions B(E1),B(E2),octupole collectivity spin dependence. 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}, ^{136}, ^{137}, ^{138}Ba, ^{142}, ^{143}, ^{145}Nd, ^{149}Sm, ^{155}, ^{157}Gd, ^{159}Tb, ^{165}Ho, ^{162}, ^{163}, ^{164}Dy, ^{167}Er, ^{169}Tm, ^{173}, ^{174}, ^{176}Yb, ^{175}, ^{176}Lu, ^{177}, ^{178}, ^{179}, ^{180}Hf, ^{195}Pt, ^{199}Hg, ^{181}Ta, ^{182}, ^{186}W, ^{191}Ir, ^{197}Au(n,γ),E=thermal; analyzed γ spectra,γγ-coin. ^{114}Cd, ^{124}Te, ^{137}, ^{138}, ^{139}Ba, ^{146}Nd, ^{150}Sm, ^{156}, ^{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: 1997IGZY
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.1304 (1997)
Authors: M.Igashira, S.Mizuno, H.Kitazawa
Title: Measurements of keV-Neutron Capture Gamma Rays of Fission Products
Keyword abstract: NUCLEAR REACTIONS ^{143}Nd, ^{149}Sm(n,γ),E=10-80,550 keV; measured σ. ^{153}Sm, ^{153}Eu(n,γ),E ≈ 30 keV; measured Eγ,Iγ.

Keynumber: **1993WI12**
Reference: Phys.Rev. C48, 1401 (1993)
Authors: K.Wisshak, K.Guber, F.Voss, F.Kappeler, G.Reffo
Title: Neutron Capture in ^{148}, ^{150}Sm: A sensitive probe of the s-process neutron density
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{148}, ^{149}, ^{150}, ^{152}Sm(n,γ),E=3-225 keV; measured σ (E); deduced stellar cross sections at kT=10-100 keV,s-process neutron density.

Keynumber: 1993VA15
Reference: Bull.Rus.Acad.Sci.Phys. 57, 1591 (1993)
Authors: E.V.Vasilieva, A.V.Voinov, O.D.Kestarova, V.D.Kulik, A.M.Sukhovoi, Yu.V.Kholnov, V.N.Shilin
Title: Two-Quantum Cascades in the Capture of Thermal Neutrons by ^{149}Sm Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured γγ-coin spectra,two-quantum cascades; deduced shape feature implications. ^{150}Sm deduced cascade intensity to two low-lying levels. Other data input.

Keynumber: 1992BE54
Reference: At.Energ. 72, 95 (1992); Sov.At.Energy 72, 91 (1992)
Authors: S.M.Bednyakov, G.N.Manturov
Title: Refining Fission-Product Capture Cross Sections in Reactivity-Perturbation Experiments
Keyword abstract: NUCLEAR REACTIONS ^{95}, ^{97}, ^{98}, ^{100}Mo, ^{103}Rh, ^{109}Ag, ^{141}Pr, ^{143}, ^{145}Nd, ^{149}Sm, ^{153}Eu(n,γ),E=reactor; analyzed fission product neutron capture σ data. Reactivity-perturbation experiments.

Keynumber: 1987WIZZ
Reference: Bull.Am.Phys.Soc. 32, No. 4, 1018, AG7 (1987)
Authors: R.R.Winters
Title: Average Neutron Capture Cross Sections for ^{148}, ^{149}, ^{150}Sm in the keV Energy Region
Keyword abstract: NUCLEAR REACTIONS ^{148}, ^{149}, ^{150}Sm(n,γ),E=few keV; measured capture σ; deduced stellar nucleosynthesis s-process branch.

Keynumber: 1987BE48
Reference: Yad.Fiz. 46, 3 (1987)
Authors: F.Becvar, M.E.Montero-Cabrera, J.Rigol, S.A.Telezhnikov, Huynh Thuong Hiep
Title: Investigation of Radiative Strength Function in ^{148}, ^{150}Sm
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ),E=thermal; measured Eγ,Iγ. ^{148}, ^{150}Sm deduced levels,J,dipole radiative strength functions. Ge(Li) detector.

Keynumber: 1986WI02
Reference: Astrophys.J. 300, 41 (1986)

Authors: R.R.Winters, F.Kappeler, K.Wisshak, A.Mengoni, G.Reffo
Title: ^{148}, ^{150}Sm: A test for s-process nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{148}, ^{149}, ^{150}Sm(n,γ),E=4-250 keV; measured σ(E); deduced Maxwellian <σ >parameters,s-process neutron density. ^{148}, ^{150}Sm deduced s-process current ratio.

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}Sm, ^{152}, ^{154}, ^{156}Gd(n,γ),E=resonance; measured γ-spectra. ^{148}, ^{150}Sm, ^{153}, ^{155}, ^{157}Gd deduced radiative strength function.

Keynumber: 1983WIZJ
Reference: NEANDC(E)-242U, Vol.V, p.8 (1983)
Authors: R.R.Winters, F.Kappeler, K.Wisshak, G.Reffo, A.Mengoni
Title: ^{148,150}Sm: A test for s-process nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{148}, ^{149}, ^{150}Sm(n,γ),E=4-250 keV; measured capture σ (E); deduced s-process capture path branching at ^{147}Nd, ^{147}, ^{148}Pm,s-process theory validity.

Keynumber: 1981ST16
Reference: Phys.Rev. C24, 1419 (1981)
Authors: M.L.Stelts, R.E.Chrien, M.K.Martel
Title: Nuclear Level Densities from Resonance Averaged Neutron Capture γ-Ray Spectra
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}, ^{154}Sm, ^{165}Ho, ^{167}Er, ^{181}Ta, ^{182}W, ^{189}Os, ^{195}Pt, ^{197}Au, ^{236}, ^{238}U(n,γ),E=2,24 keV; measured Eγ,Iγ for average resonance capture. ^{148}, ^{150}, ^{155}Sm, ^{166}Ho, ^{168}Er, ^{182}Ta, ^{183}W, ^{190}Os, ^{196}Pt, ^{198}Au, ^{237}, ^{239}U deduced level density parameters. Fermi gas model.

Keynumber: 1981PO14
Reference: Phys.Rev. C24, 2322 (1981)
Authors: H.Postma
Title: Dipole Nature of Statistical Gamma Ray Spectra in (n,γ) Reactions
Keyword abstract: NUCLEAR REACTIONS ^{143}Nd, ^{149}Sm(n,γ),E=thermal; analyzed γ-spectra from oriented nuclei; deduced statistical γ-ray multipolarity.

Keynumber: 1980DEZJ
Reference: INDC(FR)-31/L (1980)
Authors: J.P.Delaroche, Ch.Lagrange
Title: Coherent Optical and Statistical Model Calculations of Neutron Capture Cross Sections for Samarium Isotopes Between 1 keV and 3 MeV
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{148}, ^{149}, ^{150}, ^{151}, ^{152}, ^{154}Sm(n,γ),E=0.001-3 MeV; calculated σ(E). Statistical model, optical transmission coefficient input.

Keynumber: 1979STZP
Reference: Bull.Am.Phys.Soc. 24, No.4, 667, HL4 (1979)
Authors: M.L.Stelts, R.F.Casten, R.E.Chrien, G.Engler, J.A.Cizewski

Title: The Pairing-Gap in the Deformed Even-Even ^{148,150}Sm Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ),E=2 keV; measured nothing; discussed observed σ in terms of pairing gap in deformed even-even nuclei,onset of increased level density.

Keynumber: 1979MIZM
Reference: Bull.Am.Phys.Soc. 24, No.7, 871, CC6 (1979)
Authors: M.Mizumoto, M.Sugimoto, Y.Nakajima, Y.Kawarasaki, Y.Furuta, A.Asami
Title: Neutron Radiative Capture and Transmission Measurements of ^{147}Sm and ^{149}Sm
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ), (n,n),E=3-300 keV; measured σ. ^{148}, ^{150}Sm deduced resonances,Γn,Γγ.

Keynumber: 1979MIZJ
Reference: NEANDC(J)-61/U, p.3 (1979)
Authors: M.Mizumoto, M.Sugimoto, Y.Nakajima, Y.Kawarasaki, Y.Furuta, A.Asami
Title: Neutron Radiative Capture and Transmission Measurements of ^{147}Sm and ^{149}Sm
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,X), (n,γ),E=3-300 keV; measured σ. ^{148}, ^{150}Sm deduced resonances,Γn,Γγ. Multi-level Breit-Wigner analysis. Enriched targets.

Keynumber: 1979ANZJ
Reference: Bull.Am.Phys.Soc. 24, No.7, 879, ED4 (1979)
Authors: R.A.Anderl, Y.D.Harker, F.Schmittroth
Title: Neodymium, Samarium and Europium Capture Cross-Section Adjustments Based on EBR-II Integral Measurements
Keyword abstract: NUCLEAR REACTIONS ^{143}, ^{145}Nd, ^{147}, ^{149}Sm,Eu(n,γ),E=1-100 keV; measured integral σ.

Keynumber: 1978ZA10
Reference: Yad.Fiz. 27, 1534 (1978); Sov.J.Nucl.Phys. 27, 808 (1978)
Authors: D.F.Zaretskii, V.K.Sirotkin
Title: Total Radiative Widths of Neutron Resonances
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{55}Mn, ^{68}Zn, ^{78}Se, ^{88}Sr, ^{96}Mo, ^{107}Ag, ^{116}Sn, ^{129}I, ^{143}Nd, ^{149}Sm, ^{161}Dy, ^{169}Tm, ^{179}Hf, ^{191}Ir, ^{199}Hg, ^{203}Tl, ^{235}, ^{238}U, ^{243}Am(n,γ); calculated total Γγ assuming dipole transitions.

Keynumber: 1978KOZK
Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No42,Koeling
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=th; calculated capture γ-ray spectra,Iγ. ^{150}Sm deduced multiplicity distribution of γ-rays.

Keynumber: 1978KOYV
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P659,Koeling
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; calculated γ-multiplicity distribution. Statistical model for high excitations,Brink-Axel model for GDR effects.

Keynumber: 1978KO25
Reference: Nucl.Phys. A307, 139 (1978)
Authors: T.Koeling

Title: A Calculation of Neutron Capture γ-Ray Spectra
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=th; calculated σ. ^{150}Sm calculated Iγ.

Keynumber: 1977KO40
Reference: Yad.Fiz. 26, 947 (1977); Sov.J.Nucl.Phys. 26, 500 (1977)
Authors: V.N.Kononov, B.D.Yurlov, E.D.Poletaev, V.M.Timokhov
Title: Fast-Neutron Capture Cross Sections for Indium, Tantalum, Gold, Samarium, and Europium
Keyword abstract: NUCLEAR REACTIONS ^{115}In, ^{181}Ta, ^{197}Au,Sm, ^{147}, ^{149}Sm,Eu, ^{151}, ^{153}Eu (n,γ),E=5-350 keV; measured σ(E).

Keynumber: 1977II01
Reference: J.Nucl.Sci.Technol. 14, 161 (1977)
Authors: S.Iijima, T.Nakagawa, Y.Kikuchi, M.Kawai, H.Matsunobu, K.Maki, S.Igarasi
Title: Evaluation of Neutron Cross Section of 27 Fission Product Nuclides Important for Fast Reactor
Keyword abstract: NUCLEAR REACTIONS ^{93}Zr, ^{95}, ^{97}Mo, ^{99}Tc, ^{101}, ^{102}, ^{104}, ^{106}Ru, ^{103}Rh, ^{105}, ^{107}Pd, ^{109}Ag, ^{129}I, ^{131}Xe, ^{133}, ^{135}, ^{137}Cs, ^{143}, ^{144}, ^{145}Nd, ^{144}Ce, ^{147}Pm, ^{147}, ^{149}, ^{151}Sm, ^{153}, ^{155}Eu (n,n), (n,γ), (n,n'), (n,X),E=th-15 MeV; calculated σ.

Keynumber: 1976SMZR
Coden: REPT ANL-76-96,P123,Smither
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}, ^{151}Sm(n,γ); measured γ-spectra. ^{148}, ^{150}, ^{152}Sm deduced levels.

Keynumber: 1975SMZQ
Coden: REPT ANL-75-75,P143
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}, ^{151}Sm(n,γ); measured γ-spectra. ^{148}, ^{150}, ^{152}Sm deduced levels,γ-branching,B(E2). Bent-crystal spectrometer.

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}Ta(n,γ),E=thermal; measured γγ-coin,γ-shape spectra. ^{150}Sm, ^{158}Gd, ^{182}Ta resonances deduced J.

Keynumber: 1975HOZI
Coden: JOUR BAPSA 20 560 AN9
Keyword abstract: NUCLEAR REACTIONS ^{145}Nd, ^{149}Sm, ^{101}, ^{102}, ^{104}Ru(n,γ),E=20 eV-150 keV; measured σ. ^{146}Nd, ^{150}Sm, ^{102}, ^{103}, ^{105}Ru deduced level spacing.

Keynumber: 1975CAZA
Coden: REPT CNAEM-R-142,Cansoy,mf
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.0976 eV; measured Eγ,Iγ,γγ-coin. ^{150}Sm deduced levels,λ.

Keynumber: 1974SMZY
Coden: JOUR BAPSA 19 525 GG12

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd, ^{149}Sm(n,γ); measured σ(Eγ). ^{114}Cd, ^{150}Sm deduced levels.

Keynumber: 1974CHYN
Coden: REPT BNL-19191,R E Chrien
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm, ^{162}, ^{164}Dy, ^{92}, ^{94}, ^{96}, ^{98}Mo(n,γ); measured nothing; calculated σ(E,Eγ).

Keynumber: 1974BEYM
Coden: REPT BNL-18941
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.04-34 eV; measured σ(E,Eγ). ^{150}Sm deduced levels,resonances,J,π.

Keynumber: 1974BEYL
Coden: REPT BNL-18942
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.04-34 eV; measured nothing,analyzed σ (E,Eγ). ^{150}Sm deduced radiative width amplitudes.

Keynumber: 1974BEYC
Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P381
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ); measured Eγ,Iγ,E(ce),I(ce). ^{150}Sm deduced levels,K,J,π.

Keynumber: 1974BEYB
Coden: REPT USNDC-11 P42
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E <34 eV; measured σ(Eγ). ^{150}Sm deduced resonances,J,π.

Keynumber: 1974BE38
Reference: Nucl.Phys. A236, 198 (1974)
Authors: F.Becvar, R.E.Chrien, O.A.Wasson
Title: A Study of the Distribution of Partial Radiative Widths and Amplitudes For ^{149}Sm(n,γ)^{150}Sm
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.04-34 eV; measured nothing,analyzed σ (E,Eγ). ^{150}Sm resonances deduced γ-width.

Keynumber: 1974BE37
Reference: Nucl.Phys. A236, 173 (1974)
Authors: F.Becvar, R.E.Chrien, O.A.Wasson
Title: An Investigation of Levels in ^{150}Sm by the ^{149}Sm(n,γ)^{150}Sm Reaction
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.04-34 eV; measured Eγ,Iγ. ^{150}Sm deduced levels,resonances,J,π.

Keynumber: 1973SMYX
Coden: REPT EANDC(US)-186'U' P24
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ); measured Eγ,Iγ. ^{148}, ^{150}Sm deduced levels.

Keynumber: 1973PRZI

Reference: Spectra of Electromagnetic Transitions and Level Schemes Following Thermal Neutron Capture by Nuclides with A 143-193, P.Prokofev, J.Berzins, G.Rezvaya, Eds., Publishing House 'Zinatne', Riga (1973)
Authors: P.Prokofev, M.Balodis, M.Beitins, Y.Berzin, V.Bondarenko, N.Kramer, A.Krumina, G.Rezvaya, L.Simonova
Title:
Keyword abstract: NUCLEAR REACTIONS ^{143}, ^{145}Nd, ^{149}Sm, ^{167}Er, ^{174}Yb, ^{175}, ^{176}Lu, ^{177}, ^{178}Hf, ^{181}Ta, ^{186}W(n,γ), E=thermal; measured Eγ,Iγ,I(ce). Deduced ICC. ^{151}Eu, ^{155}Gd(n,γ), E=thermal; measured Eγ,I(ce). Deduced ICC. ^{157}Gd, ^{162}, ^{164}Dy, ^{165}Ho, ^{168}Yb, ^{169}Tm(n,γ), E=thermal; measured I (ce). Deduced ICC. ^{191}, ^{193}Ir(n,γ),E=thermal; measured Eγ,Iγ. ^{144}Nd, ^{150}Sm, ^{156}, ^{158}Gd, ^{163}, ^{165}Dy, ^{166}Ho, ^{168}Er, ^{169}, ^{175}, ^{177}Yb, ^{170}Tm, ^{176}Lu, ^{178}Hf, ^{182}Ta deduced levels,J,π, γ-multipolarities. ^{146}Nd, ^{185}W, ^{194}Ir deduced levels,J,π. ^{152}Eu deduced transitions,γ-multipolarities. ^{187}W, ^{192}Ir deduced transitions.

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

Keynumber: 1973BUYT
Coden: REPT ANL-8035 P17
Keyword abstract: NUCLEAR REACTIONS ^{159}Tb, ^{149}Sm, ^{181}Ta(n,γ); measured σ(Eγ). ^{160}Tb, ^{150}Sm, ^{182}Ta deduced levels.

Keynumber: 1973BE73
Reference: Latv.PSR Zinat.Akad.Vestis, Fiz.Teh.Zinat.Ser. No.1, 3 (1973)
Authors: Y.Y.Berzin, A.E.Kruminya, P.T.Prokofev
Title: Spectrum of Internal Conversion Electrons Emitted at Thermal Neutron Capture by ^{149}Sm Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured E(ce),I(ce); deduced ICC. ^{150}Sm deduced levels,J,K,π,γ-multipolarity.

Keynumber: 1972SMZO
Reference: ANL-7971, p.13 (1972)
Authors: R.K.Smither, D.J.Buss, D.L.Bushnell
Title: The Isotopes of Samarium
Keyword abstract: NUCLEAR REACTIONS ^{149}, ^{150}, ^{152}, ^{154}Sm(n,γ); measured Eγ,Iγ. ^{150}, ^{151}, ^{153}, ^{155}Sm deduced levels,J,π,γ-multipolarities.

Keynumber: 1972SMZJ
Coden: REPT ANL-7971,R Smither,2/27/73
Keyword abstract: NUCLEAR REACTIONS ^{149}, ^{150}, ^{152}, ^{154}Sm(n,γ),E=resonance; measured Eγ,Iγ. ^{151}, ^{150}, ^{153}Sm deduced levels,J,π.

Keynumber: 1972KAZZ
Coden: JOUR BAPSA 17 17,W R Kane,1/13/72
Keyword abstract: NUCLEAR REACTIONS ^{149}, ^{151}Sm(n,γ),E=0.004,0.025,0.0976,0.321,0.461 eV; measured Eγ,Iγ.

Keynumber: 1972KAZP
Reference: JINR-P3-6237 (1972)
Authors: E.N.Karzhavina, Kim Sek Su, A.B.Popov
Title: Spins of ^{147}Sm and ^{149}Sm Neutron Resonances
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,X), (n,γ),E <400 eV; measured σ(E;Eγ). ^{148}, ^{150}Sm deduced resonances,J,strength functions.

Keynumber: 1972KAZH
Reference: Contrib.Conf.Nucl.Structure Study with Neutrons, Budapest, p.20 (1972)
Authors: E.N.Karzhavina, Kim Sek su, A.B.Popov
Title: The Determination of Spins of Neutron Resonances by the Gamma-Ray Multiplicity Method
Keyword abstract: NUCLEAR REACTIONS ^{105}Pd, ^{147}, ^{149}Sm,Sb, ^{171}Yb(n,γ), measured γγ-coin. ^{106}Pd, ^{148}, ^{150}Sm deduced resonances,J.

Keynumber: 1972KAXV
Coden: CONF Kiev(Neutron Physics),CONF-710565-P1,P135
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ); measured σ. ^{148}, ^{150}Sm deduced level spacing,strength function.

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}Gd(n,γ),E=thermal; measured I(β+),I(β-). ^{114}Cd, ^{150}Sm, ^{158}Gd transitions deduced pair ICC,dominant multipolarity.

Keynumber: 1971CAYZ
Coden: CONF CONF-710301(Knoxville),Vol2,P785,11/2/71
Keyword abstract: NUCLEAR REACTIONS ^{127}I, ^{143}, ^{145}Nd, ^{147}, ^{149}Sm, ^{121}, ^{123}Sb(n,γ), ^{123}, ^{125}Te (n,n), measured σ. ^{128}I, ^{144}, ^{146}Nd, ^{148}, ^{150}Sm, ^{122}, ^{124}Sb, ^{124}, ^{126}Te resonances deduced J.

Keynumber: 1971CAYD
Reference: Proc.Conf.Neutron Cross Sections and Technol., 3rd, Knoxville, Tenn., R.L.Macklin, Ed., CONF-710301, Vol.2, p.785 (1971)
Authors: B.Cauvin, A.Lottin, A.Michaudon, C.M.Newstead, D.Paya, J.Trochon
Title: Spin Assignments from Capture Gamma-Rays and Scattering Measurements
Keyword abstract: NUCLEAR REACTIONS ^{127}I, ^{143}, ^{145}Nd, ^{147}, ^{149}Sm, ^{121}, ^{123}Sb (n,γ),E=resonance; measured σ(Eγ),Iγ ratios. ^{123}, ^{125}Te(n,n)E=resonance; measured σ(E). ^{128}I, ^{144}, ^{146}Nd, ^{148}, ^{150}Sm, ^{122}, ^{124}Sb, ^{124}, ^{126}Te resonances deduced J.

Keynumber: 1971BEZE
Coden: CONF Moscow(NuclSpectros,Structure) Abstr P94
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=th; measured Eγ,I(ce). ^{150}Sm deduced levels,B(λ),quasirotational bands,J,K,π.

Keynumber: 1971BEWE
Reference: Program and Theses, Proc.21st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Moscow, Pt.1, p.94 (1971)
Authors: Y.Y.Berzin, A.E.Kruminya, P.T.Prokofev
Title: On Several Quasi Rotational Bands in ^{150}Sm
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured I(ce). ^{150}Sm deduced levels,J,K,π,band parameters,B(λ) ratio.

Keynumber: 1970WEZU
Coden: REPT FMRB-33/70, 7/6/71
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm, ^{191}Ir(n,γ),E=resonance; measured σ(E;Eγ).

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}Gd(n,γ), E=th; measured Eγ,I(ce). ^{150}Sm, ^{158}Gd deduced transitions, ICC.

Keynumber: 1970KV01
Reference: Nucl.Phys. A154, 177 (1970)
Authors: J.Kvitek, Y.P.Popov
Title: Investigation of the (n,α) Reaction on Sm and Nd Isotopes in the Neutron Energy Region below 1 keV
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm, ^{143}Nd, ^{145}Nd(n,α), (n,γ),E=0.04-900 eV; measured σ(E),α-width γ-width. ^{144}, ^{146}Nd, ^{148}, ^{150}Sm deduced resonances,J,π,α-width. Enriched targets.

Keynumber: 1970CHZP
Coden: REPT NCSAC-33 P17
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=0.02-50 eV; measured Iγ. ^{150}Sm resonances deduced J,π.

Keynumber: 1970BU19
Reference: Phys.Rev. C2, 1513 (1970)
Authors: D.J.Buss, R.K.Smither
Title: Level Structure of ^{148}Sm and ^{150}Sm from Average Resonance Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm(n,γ),E=epithermal; measured Eγ,Iγ; deduced Q. ^{148}, ^{150}Sm deduced levels,J,π,γ-multipolarity.

Keynumber: 1970BEYE
Reference: Bull.Amer.Phys.Soc. 15, No.12, 1667, CC5 (1970)
Authors: F.Becvar, R.E.Chrien, O.A.Wasson
Title: The Study of Neutron Resonance Capture in ^{149}Sm
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E not given; measured σ(Eγ,θ). ^{150}Sm deduced resonances,J,π,level-width.

Keynumber: 1969SA29
Reference: Current Sci.(India) 38, 237 (1969)
Authors: D.L.Sastry, K.Parthasaradhi, S.Jnanananda
Title: Low Energy Thermal Neutron Capture Gamma-Rays from Cd and Sm
Keyword abstract: NUCLEAR REACTIONS ^{113}Cd, ^{149}Sm(n,γ), E=thermal; measured Eγ, Iγ. ^{114}Cd, ^{150}Sm deduced intense population of low-lying states.

Keynumber: 1969REZZ
Reference: Thesis, Univ.Leiden (1969)
Authors: E.R.Reddingius
Title: A Study of Neutron-Capture Gamma-Ray Spectra from Aligned Neodymium and Samarium Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{143}, ^{145}Nd, ^{147}, ^{149}, ^{152}Sm(n,γ),E=0.047 eV; measured Eγ,Iγ,γ-anisotropy,linear polarization; deduced Q. ^{144}, ^{146}Nd, ^{148}, ^{150}, ^{153}Sm deduced levels,J,π,ICC,γ-mixing. Ge(Li) detector, aligned nuclei.

Keynumber: 1969RE11
Reference: Nucl.Phys. A137, 389 (1969)
Authors: E.R.Reddingius, H.Postma
Title: Directional Anisotropy of Capture Gamma Rays from Aligned ^{149}Sm Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ), E = thermal; measured Eγ, Iγ, γ-anisotropy. ^{150}Sm deduced levels, J, π, γ-mixing. Aligned natural target; Ge(Li) detector.

Keynumber: 1969RE04
Reference: Physica 40, 567 (1969)
Authors: E.R.Reddingius, H.Postma
Title: A Study of Gamma-Ray Spectra of Thermal-Neutron Capture in ^{147}Sm, ^{149}Sm and ^{152}Sm
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}, ^{152}Sm(n,γ),E=th; measured Eγ,Iγ; deduced Q. ^{148}, ^{153}Sm deduced levels. Enriched ^{147}, ^{152}Sm target, Ge(Li) detector.

Keynumber: 1969PA17
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 33, 670 (1969); Bull.Acad.Sci. USSR, Phys.Ser. 33, 617 (1970)
Authors: Y.N.Panin, V.I.Pelekhov, T.I.Turguntaev
Title: A Large Magnetic Spectrometer for Internal Conversion Electrons Emitted in (nγ) Reactions
Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ), E=thermal; measured I(ce). ^{150}Sm deduced transitions.

Keynumber: 1968LU12
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 32, 74(1968); Bull.Acad.Sci.USSR, Phys.Ser. 32, 74(1969)
Authors: E.Y.Lure, L.K.Peker, P.T.Prokofev

Title: On E2 + E0 Transitions in 'Spherical' Nuclei of the ^{150}Sm Type

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured Eγ,Iγ,I(ce). ^{150}Sm deduced levels, ICC,B(λ).

Keynumber: 1968GO38

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 32, 1719 (1968); Bull.Acad.Sci.USSR, Phys.Ser. 32, 1584 (1969)

Authors: L.I.Govor, V.A.Ivanov

Title: e-γ-Coincidence Study of ^{156}Gd Levels Excited in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{155}Gd, ^{149}Sm(n,γ), E = thermal; measured Eγ, Iγ, ceγ-coin. ^{150}Sm deduced transitions. ^{156}Gd deduced levels, J, π, ICC, B(E2).

Keynumber: 1968BRZZ

Reference: Program and Theses, Proc.18th Ann.Conf.Nucl.Spectroscopy and Struct.Of At.Nuclei, Riga, p.37 (1968)

Authors: D.L.Broder, B.V.Nesterov, M.V.Panarin, L.P.Khamyanov

Title: Investigation of Capture γ-Rays in ^{59}Co, ^{48}Ti, ^{89}Y and ^{149}Sm with a Ge-Li Spectrometer

Keyword abstract: NUCLEAR REACTIONS ^{48}Ti, ^{59}Co, ^{89}Y, ^{149}Sm(n,γ), E=thermal; measured Eγ, Iγ. ^{49}Ti, ^{60}Co, ^{90}Y, ^{150}Sm deduced transitions. Ge(Li) detectors.

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 ^{6}Li, ^{7}Li, ^{9}Be, ^{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 Eγ; deduced Q. Natural targets.

Keynumber: 1967LU09

Reference: Latvijas PSR Zinatnu Akad.Vestis, Fiz.Teh.Zinatnu Ser., No.6 (1967)

Authors: E.Lure, L.Peker, P.Prokofev

Title: Levels of ^{150}Sm Nucleus Excitable at Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ), E = thermal; measured I(ce). ^{150}Sm deduced levels, K,ICC,transition probabilities.

Keynumber: 1967CH37

Reference: J.Nucl.Sci.(Seoul) 7, 12 (1967)

Authors: M.-K.Chung

Title: High Resolution Gamma-Ray Spectroscopy with Lithium Ion Drifted Germanium Detectors - Part II

Keyword abstract: RADIOACTIVITY ^{46m}Sc, ^{71}Zn, ^{75m}, ^{77m}Ge, ^{108}, ^{110}Ag, ^{161}Gd, ^{183m}, ^{185m}W, ^{235}U; measured Eγ,Iγ.

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm, ^{177}Hf(n,γ),E=thermal; measured Eγ,Iγ. ^{150}Sm, ^{178}Hf deduced transitions.

Keynumber: 1967CH36
Reference: J.Nucl.Sci. (Seoul) 7, 1 (1967)
Authors: M.K.Chung
Title: High Resolution Gamma-Ray Spectroscopy with Lithium Ion Drifted Germanium Detectors - Part I

Keyword abstract: RADIOACTIVITY ^{46m}Sc, ^{71}Zn, ^{75}, ^{77m}Ge, ^{108}, ^{110}Ag, ^{161}Gd, ^{183m}, ^{185m}W, ^{235}U; measured Eγ, Iγ.

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm(n,γ),E=thermal; measured Eγ,Iγ. ^{150}Sm deduced transitions. Ge(Li) detector.
