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**43 reference(s) found :**

**Keynumber:** 2000SHZR

**Reference:** INDC(CPR)-052/L, p.43 (2000)

**Authors:** Q.Shen

**Title:** Calculations of  $n + {}^{144,147-152,154}\text{Sm}$  Reactions in the Energy Region up to 20 MeV

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{144, 147, 148, 149, 150, 151, 152, 154}\text{Sm}(n,X)$ ,  $(n,n)$ ,  $(n,xn)$ ,  $(n,\gamma)$ ,  $E < 20$  MeV; calculated  $\sigma$ . 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  ${}^{95}\text{Mo}$ ,  ${}^{99}\text{Tc}$ ,  ${}^{101}\text{Ru}$ ,  ${}^{103}\text{Rh}$ ,  ${}^{105}\text{Pd}$ ,  ${}^{109}\text{Ag}$ ,  ${}^{131}\text{Xe}$ ,  ${}^{133}\text{Cs}$ ,  ${}^{141}\text{Pr}$ ,  ${}^{143, 145}\text{Nd}$ ,  ${}^{147, 149, 150, 151, 152}\text{Sm}$ ,  ${}^{153}\text{Eu}$ ,  ${}^{155, 157}\text{Gd}(n,\gamma)$ ,  $E < 250$  keV; compiled, analyzed capture  $\sigma$ , resonance parameters, related features. Comparison with data, previous evaluations.

**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  ${}^{147,148,149,150,152,154}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{147, 148, 149, 150, 152, 154}\text{Sm}(n,\gamma)$ ,  $E = 10-90, 550$  keV; measured  $E\gamma$ ,  $I\gamma$ , capture  $\sigma$ . Comparison with previous results.

**Keynumber:** 1997GOZR

**Reference:** Program and Thesis, Proc.47th Ann.Conf.on Nucl.Spectrosc.Struct.At.Nuclei, Obninsk, p.46 (1997)

**Authors:** L.I.Govor, A.M.Demidov, Yu.K.Cherepantsev

**Title:** Investigation of  ${}^{148}\text{Sm}$  in  $(n,n'\gamma)$  and  $(n\text{-bar}_{\text{res}},\gamma)$  Reactions

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{148}\text{Sm}(n,n'\gamma)$ ,  ${}^{147}\text{Sm}(n,\gamma)$ ,  $E = \text{fast}$ ; measured  $I\gamma(\theta)$ ,  $E\gamma$ .  ${}^{148}\text{Sm}$  deduced levels,  $J, \pi$ .

**Keynumber:** [1993WI12](#)

**Reference:** Phys.Rev. C48, 1401 (1993)

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

**Title:** Neutron Capture in  ${}^{148, 150}\text{Sm}$ : A sensitive probe of the s-process neutron density

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{147, 148, 149, 150, 152}\text{Sm}(n,\gamma)$ ,  $E = 3-225$  keV; measured  $\sigma$  ( $E$ ); deduced stellar cross sections at  $kT = 10-100$  keV, s-process neutron density.

**Keynumber:** 1993GE07

**Reference:** Nucl.Phys. A565, 643 (1993)

**Authors:** G.Georgiev, Yu.S.Zamyatin, L.B.Pikelner, G.V.Muradian, Yu.V.Grigorev, T.Madjarski, N.Janeva

**Title:** Determination of  ${}^{147}\text{Sm}$  and  ${}^{148}\text{Sm}$  Resonance Parameters

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{148}\text{Sm}(n,\gamma)$ ,  $E=15-4000$  eV; measured  $\sigma(n,\gamma)$ ,  $\sigma(n,n')$ , for capture, neutron scattering.  $^{148}, ^{149}\text{Sm}$  deduced resonances,  $\Gamma\gamma, \Gamma(n), J$ . Multisectional scintillation detector, IBR-30 pulse booster.

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**Keynumber:** 1988DE45

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 52, 2231 (1988); Bull.Acad.Sci.USSR, Phys.Ser. 52, No.11, 152 (1988)

**Authors:** A.M.Demidov

**Title:** Low-Lying Nuclear Levels Excited by Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ ,  $^{124}\text{Te}(n,n')$ ,  $^{114}\text{Cd}(n,n'\gamma)$ ,  $E=\text{thermal, fast}$ ; analyzed data; deduced low levels production probability.  $^{124}\text{Te}$  deduced corrections to level scheme, transition  $\delta$ .  $^{114}\text{Cd}$  deduced transition  $\delta$ .

**Keyword abstract:** NUCLEAR STRUCTURE  $A=100-150$ ; analyzed neutron induced reaction data; deduced  $\delta$  dependence on neutron number.

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**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  $^{148}, ^{150}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}\text{Sm}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ .  $^{148}, ^{150}\text{Sm}$  deduced levels,  $J$ , dipole radiative strength functions. Ge(Li) detector.

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**Keynumber:** 1987BA36

**Reference:** Z.Phys. A327, 323 (1987)

**Authors:** G.Batko, O.Civitarese, A.L.De Paoli

**Title:** Temperature Dependent Effects upon Statistical Particle and Gamma Ray Emission from a Compound Nucleus

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ ,  $^{147}\text{Sm}(\gamma,n)$ ,  $E$  not given; calculated average  $\gamma$  multiplicity vs excitation energy. Fermi gas model.

**Keyword abstract:** NUCLEAR STRUCTURE  $^{147}\text{Sm}$ ; calculated level density parameter vs nuclear temperature, neutron,  $\gamma$  ray emission probabilities. Fermi gas model.

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**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  $\gamma$ -spectra.  $^{148}, ^{150}\text{Sm}$ ,  $^{153}, ^{155}, ^{157}\text{Gd}$  deduced radiative strength function.

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**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  $\gamma$ -Ray Spectra

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}, ^{154}\text{Sm}$ ,  $^{165}\text{Ho}$ ,  $^{167}\text{Er}$ ,  $^{181}\text{Ta}$ ,  $^{182}\text{W}$ ,  $^{189}\text{Os}$ ,  $^{195}\text{Pt}$ ,  $^{197}\text{Au}$ ,  $^{236}, ^{238}\text{U}(n,\gamma)$ ,  $E=2,24$  keV; measured  $E\gamma, I\gamma$  for average resonance capture.  $^{148}, ^{150}, ^{155}\text{Sm}$ ,  $^{166}\text{Ho}$ ,  $^{168}\text{Er}$ ,  $^{182}\text{Ta}$ ,  $^{183}\text{W}$ ,  $^{190}\text{Os}$ ,  $^{196}\text{Pt}$ ,  $^{198}\text{Au}$ ,  $^{237}, ^{239}\text{U}$  deduced level density parameters. Fermi gas model.

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**Keynumber:** 1980MUZL

**Coden:** CONF Kiev(Neutron Physics) Proc,Part2,P262,Murzin

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ ,  $E=2,24,55$  keV; measured  $E\gamma, I\gamma$ .  $^{148}\text{Sm}$  deduced neutron strength functions, average  $\Gamma\gamma$ . Enriched targets, Ge(Li) detectors.

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**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  $^{147}, ^{148}, ^{149}, ^{150}, ^{151}, ^{152}, ^{154}\text{Sm}(n,\gamma)$ ,  $E=0.001-3$  MeV; calculated  $\sigma(E)$ . Statistical model, optical transmission coefficient input.

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**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  $^{148,150}\text{Sm}$  Nuclei

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}\text{Sm}(n,\gamma)$ ,  $E=2$  keV; measured nothing; discussed observed  $\sigma$  in terms of pairing gap in deformed even-even nuclei, onset of increased level density.

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**Keynumber:** 1979MUZR

**Reference:** Program and Theses, Proc.29th Ann.Conf.Nucl.Spectrosc.At.Nuclei, Riga, p.292 (1979)

**Authors:** A.V.Murzin, V.A.Libman, N.A.Lubchenko, A.F.Rudyk

**Title:**  $\gamma$ -Ray Spectra from the  $^{147}\text{Sm}(n,\gamma)^{148}\text{Sm}$  Reaction at 24.5 keV Neutron Energy

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ ,  $E=24.5$  keV; measured  $E\gamma, I\gamma$ .  $^{148}\text{Sm}$  deduced transitions. Ge(Li) detector.

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**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  $^{147}\text{Sm}$  and  $^{149}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}\text{Sm}(n,\gamma)$ ,  $(n,n)$ ,  $E=3-300$  keV; measured  $\sigma$ .  $^{148}, ^{150}\text{Sm}$  deduced resonances,  $\Gamma n, \Gamma\gamma$ .

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**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  $^{147}\text{Sm}$  and  $^{149}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}\text{Sm}(n,X)$ ,  $(n,\gamma)$ ,  $E=3-300$  keV; measured  $\sigma$ .  $^{148}, ^{150}\text{Sm}$  deduced resonances,  $\Gamma n, \Gamma\gamma$ . Multi-level Breit-Wigner analysis. Enriched targets.

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**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  $^{143}, ^{145}\text{Nd}$ ,  $^{147}, ^{149}\text{Sm}$ ,  $\text{Eu}(n,\gamma)$ ,  $E=1-100$  keV; measured

integral  $\sigma$ .

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**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  $^{115}\text{In}$ ,  $^{181}\text{Ta}$ ,  $^{197}\text{Au}$ ,  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$ ,  $^{151}\text{Eu}$ ,  $^{153}\text{Eu}$  (n, $\gamma$ ), E=5-350 keV; measured  $\sigma(E)$ .

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**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  $^{93}\text{Zr}$ ,  $^{95}\text{Mo}$ ,  $^{97}\text{Mo}$ ,  $^{99}\text{Tc}$ ,  $^{101}\text{Ru}$ ,  $^{102}\text{Ru}$ ,  $^{104}\text{Ru}$ ,  $^{106}\text{Ru}$ ,  $^{103}\text{Rh}$ ,  $^{105}\text{Pd}$ ,  $^{107}\text{Pd}$ ,  $^{109}\text{Ag}$ ,  $^{129}\text{I}$ ,  $^{131}\text{Xe}$ ,  $^{133}\text{Cs}$ ,  $^{135}\text{Cs}$ ,  $^{137}\text{Cs}$ ,  $^{143}\text{Nd}$ ,  $^{144}\text{Nd}$ ,  $^{145}\text{Nd}$ ,  $^{144}\text{Ce}$ ,  $^{147}\text{Pm}$ ,  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$ ,  $^{151}\text{Sm}$ ,  $^{153}\text{Eu}$ ,  $^{155}\text{Eu}$  (n,n), (n, $\gamma$ ), (n,n'), (n,X), E=th-15 MeV; calculated  $\sigma$ .

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**Keynumber:** 1976SMZR

**Coden:** REPT ANL-76-96,P123,Smither

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$ ,  $^{151}\text{Sm}$ (n, $\gamma$ ); measured  $\gamma$ -spectra.  $^{148}\text{Sm}$ ,  $^{150}\text{Sm}$ ,  $^{152}\text{Sm}$  deduced levels.

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**Keynumber:** 1975SMZQ

**Coden:** REPT ANL-75-75,P143

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$ ,  $^{151}\text{Sm}$ (n, $\gamma$ ); measured  $\gamma$ -spectra.  $^{148}\text{Sm}$ ,  $^{150}\text{Sm}$ ,  $^{152}\text{Sm}$  deduced levels,  $\gamma$ -branching, B(E2). Bent-crystal spectrometer.

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**Keynumber:** 1974ALYR

**Coden:** REPT JINR-P3-7885,L Aldea

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}$ (n, $\gamma$ ), measured  $\sigma(E, E\gamma)$ .  $^{148}\text{Sm}$  deduced resonances, levels, J,  $\pi$ , g,  $\gamma$ -width.

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**Keynumber:** 1973SMYX

**Coden:** REPT EANDC(US)-186'U' P24

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$ (n, $\gamma$ ); measured  $E\gamma$ ,  $I\gamma$ .  $^{148}\text{Sm}$ ,  $^{150}\text{Sm}$  deduced levels.

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**Keynumber:** 1973LAYG

**Reference:** RCN-191 (1973)

**Authors:** G.Lautenbach

**Title:** Calculated Neutron Absorption Cross Sections of 75 Fission Products

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

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**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  $\gamma$ -Ray Spectra Emitted during the Decay of Neutron Resonances in  $^{147}\text{Sm}$ ,  $^{157}\text{Gd}$ , and  $^{177}\text{Hf}$

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

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**Keynumber:** 1972KAZP

**Reference:** JINR-P3-6237 (1972)

**Authors:** E.N.Karzhavina, Kim Sek Su, A.B.Popov

**Title:** Spins of  $^{147}\text{Sm}$  and  $^{149}\text{Sm}$  Neutron Resonances

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}$ ,  $^{149}\text{Sm}(n,X)$ ,  $(n,\gamma)$ , E <400 eV; measured  $\sigma(E;E\gamma)$ .  $^{148}$ ,  $^{150}\text{Sm}$  deduced resonances, J, strength functions.

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**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  $^{105}\text{Pd}$ ,  $^{147}$ ,  $^{149}\text{Sm}$ , Sb,  $^{171}\text{Yb}(n,\gamma)$ , measured  $\gamma\gamma$ -coin.  $^{106}\text{Pd}$ ,  $^{148}$ ,  $^{150}\text{Sm}$  deduced resonances, J.

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**Keynumber:** 1972KAXV

**Coden:** CONF Kiev(Neutron Physics), CONF-710565-P1, P135

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}$ ,  $^{149}\text{Sm}(n,\gamma)$ ; measured  $\sigma$ .  $^{148}$ ,  $^{150}\text{Sm}$  deduced level spacing, strength function.

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**Keynumber:** 1972KAXS

**Reference:** INDC(CCP)-30/U, p.42 (1972)

**Authors:** E.N.Karzhavina, A.B.Popov

**Title:** Neutron Resonances of the Isotopes Samarium-147 and 149

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E <400 eV;  $^{149}\text{Sm}(n,\gamma)$ , E <250 eV; measured  $\sigma(E)$ .  $^{148}$ ,  $^{150}\text{Sm}$  deduced resonances, level-width.

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**Keynumber:** 1972GE12

**Reference:** Phys.Rev. C6, 1113 (1972)

**Authors:** W.Gelletly, W.R.Kane

**Title:** Spins of Levels in  $^{148}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E=thermal, 3.4 eV; measured  $E\gamma$ ,  $I\gamma$ .  $^{148}\text{Sm}$  deduced levels, J,  $\pi$ ,  $\gamma$ -multipolarity.

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**Keynumber:** 1972CAZK

**Coden:** REPT CEA-N-1522, P295

**Keyword abstract:** NUCLEAR REACTIONS  $^{143}$ ,  $^{145}\text{Nd}$ ,  $^{147}\text{Sm}$ ,  $^{165}\text{Ho}$ ,  $^{121}\text{Sb}(n,\gamma)$ , measured  $\gamma$ -multiplicity,  $I\gamma$ .  $^{144}$ ,  $^{146}\text{Nd}$ ,  $^{148}\text{Sm}$ ,  $^{166}\text{Ho}$ ,  $^{122}\text{Sb}$  deduced resonances, J.

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**Keynumber:** 1971GRZO

**Reference:** Program and Theses, Proc.21st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Moscow, Pt.1,

p.92 (1971)

**Authors:** L.V.Groshev, A.M.Demidov, V.F.Leonov, L.L.Sokolovskii

**Title:** De-Excitation of  $^{148}\text{Sm}$  after Capture of Slow Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E=slow; measured  $E\gamma$ ,  $I\gamma$ ; deduced Q.  $^{148}\text{Sm}$  deduced transitions.

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**Keynumber:** 1971GRZE

**Coden:** CONF Moscow(NuclSpectros,Structure) Abstr P92

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E=th; measured  $E\gamma$ ; deduced Q.  $^{148}\text{Sm}$  deduced levels.

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**Keynumber:** 1971GR37

**Reference:** Yad.Fiz. 14, 473 (1971); Sov.J.Nucl.Phys. 14, 265 (1972)

**Authors:** L.V.Groshev, A.M.Demidov, V.F.Leonov, L.L.Sokolovskii

**Title:** Gamma Decay of  $\text{Sm}^{148}$  Nuclei after Capture of Thermal Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E=thermal; measured  $E\gamma$ ,  $I\gamma$ ; deduced Q.  $^{148}\text{Sm}$  deduced transitions.

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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:** 1971CAYZ

**Coden:** CONF CONF-710301(Knoxville), Vol2,P785,11/2/71

**Keyword abstract:** NUCLEAR REACTIONS  $^{127}\text{I}$ ,  $^{143}, ^{145}\text{Nd}$ ,  $^{147}, ^{149}\text{Sm}$ ,  $^{121}, ^{123}\text{Sb}(n,\gamma)$ ,  $^{123}, ^{125}\text{Te}(n,n)$ , measured  $\sigma$ .  $^{128}\text{I}$ ,  $^{144}, ^{146}\text{Nd}$ ,  $^{148}, ^{150}\text{Sm}$ ,  $^{122}, ^{124}\text{Sb}$ ,  $^{124}, ^{126}\text{Te}$  resonances deduced J.

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**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  $^{127}\text{I}$ ,  $^{143}, ^{145}\text{Nd}$ ,  $^{147}, ^{149}\text{Sm}$ ,  $^{121}, ^{123}\text{Sb}(n,\gamma)$ , E=resonance; measured  $\sigma(E\gamma)$ ,  $I\gamma$  ratios.  $^{123}, ^{125}\text{Te}(n,n)$ , E=resonance; measured  $\sigma(E)$ .  $^{128}\text{I}$ ,  $^{144}, ^{146}\text{Nd}$ ,  $^{148}, ^{150}\text{Sm}$ ,  $^{122}, ^{124}\text{Sb}$ ,  $^{124}, ^{126}\text{Te}$  resonances deduced J.

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**Keynumber:** 1970GRYT

**Reference:** IAE-2052 (1970)

**Authors:** L.V.Groshev, A.M.Demidov, V.F.Leonov, L.L.Sokolovskii

**Title:** Deexcitation of  $^{148}\text{Sm}$  after Thermal Neutron Capture

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}\text{Sm}(n,\gamma)$ , E=th; measured  $E\gamma$ ,  $I\gamma$ ; deduced Q.  $^{148}\text{Sm}$  deduced levels,  $\gamma$ -branching.

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**Keynumber:** 1970BU19

**Reference:** Phys.Rev. C2, 1513 (1970)

**Authors:** D.J.Buss, R.K.Smith

**Title:** Level Structure of  $^{148}\text{Sm}$  and  $^{150}\text{Sm}$  from Average Resonance Neutron Capture

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}\text{Sm}(n,\gamma)$ , E=epithermal; measured  $E\gamma, I\gamma$ ; deduced Q.  $^{148}, ^{150}\text{Sm}$  deduced levels, J,  $\pi$ ,  $\gamma$ -multipolarity.

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**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  $^{143}, ^{145}\text{Nd}, ^{147}, ^{149}, ^{152}\text{Sm}(n,\gamma)$ , E=0.047 eV; measured  $E\gamma, I\gamma, \gamma$ -anisotropy, linear polarization; deduced Q.  $^{144}, ^{146}\text{Nd}, ^{148}, ^{150}, ^{153}\text{Sm}$  deduced levels, J,  $\pi$ , ICC,  $\gamma$ -mixing. Ge(Li) detector, aligned nuclei.

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**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  $^{147}\text{Sm}$ ,  $^{149}\text{Sm}$  and  $^{152}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}, ^{149}, ^{152}\text{Sm}(n,\gamma)$ , E=th; measured  $E\gamma, I\gamma$ ; deduced Q.  $^{148}, ^{153}\text{Sm}$  deduced levels. Enriched  $^{147}, ^{152}\text{Sm}$  target, Ge(Li) detector.

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**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  $^{148}\text{Sm}$ ,  $^{156}\text{Gd}$ ,  $^{158}\text{Gd}$ , and  $^{164}\text{Dy}$

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

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