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35 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,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 ${}^{95}\text{Mo}$, ${}^{99}\text{Tc}$, ${}^{101}\text{Ru}$, ${}^{103}\text{Rh}$, ${}^{105}\text{Pd}$, ${}^{109}\text{Ag}$, ${}^{131}\text{Xe}$, ${}^{133}\text{Cs}$, ${}^{141}\text{Pr}$, ${}^{143, 145}\text{Nd}$, ${}^{147, 149, 150, 151, 152}\text{Sm}$, ${}^{153}\text{Eu}$, ${}^{155, 157}\text{Gd}(n,\gamma)$, $E < 250$ keV; compiled,analyzed capture σ ,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 σ . Comparison with previous results.

Keynumber: 1997MUZV

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.1624 (1997)

Authors: S.Mughabghab

Title: Neutron Capture Cross Sections for Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ${}^{93}\text{Nb}$, ${}^{127}\text{I}$, ${}^{141}\text{Pr}$, ${}^{150, 152, 154}\text{Sm}$, ${}^{181}\text{Ta}(n,\gamma)$, $E=30$ keV; calculated Maxwellian averaged capture σ .

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 σ (E); deduced stellar cross sections at $kT=10-100$ keV, s-process neutron density.

Keynumber: 1987WIZZ

Reference: Bull.Am.Phys.Soc. 32, No. 4, 1018, AG7 (1987)

Authors: R.R.Winters

Title: Average Neutron Capture Cross Sections for ${}^{148, 149, 150}\text{Sm}$ in the keV Energy Region

Keyword abstract: NUCLEAR REACTIONS ${}^{148, 149, 150}\text{Sm}(n,\gamma)$, $E=\text{few keV}$; measured capture σ ; deduced stellar nucleosynthesis s-process branch.

Keynumber: 1986WI02

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

Authors: R.R.Winters, F.Kappeler, K.Wisshak, A.Mengoni, G.Reffo

Title: $^{148}, ^{150}\text{Sm}$: A test for s-process nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS $^{148}, ^{149}, ^{150}\text{Sm}(n,\gamma)$, E=4-250 keV; measured $\sigma(E)$; deduced Maxwellian $\langle\sigma\rangle$ parameters, s-process neutron density. $^{148}, ^{150}\text{Sm}$ deduced s-process current ratio.

Keynumber: [1986VA08](#)

Reference: Phys.Rev. C33, 1144 (1986)

Authors: G.Vandenput, P.H.M.Van Assche, L.Jacobs, J.M.Van den Cruyce, R.K.Smith, K.Schreckenbach, T.von Egidy, D.Breitig, H.A.Baader, H.R.Koch

Title: Low-Energy Level Structure of ^{151}Sm by Neutron Capture Reactions and Theoretical Interpretation

Keyword abstract: NUCLEAR STRUCTURE ^{151}Sm ; calculated levels, J, π , γ -multipolarities, γ -branching ratios, δ . Particle-rotor model, Coriolis coupling.

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n,\gamma)$, E=thermal, resonance; measured $E\gamma$, $I\gamma$, $I(\text{ce})$. ^{151}Sm deduced levels, J, π , γ -multipolarities, γ -branching ratios, δ . Particle-rotor model, Coriolis coupling. Curved crystal, conversion electron spectrometers, Ge(Li) detector, enriched targets.

Keynumber: 1984ABZX

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.2, p.105 (1984)

Authors: L.P.Abagyan, S.M.Zakharova

Title:

Keyword abstract: NUCLEAR REACTIONS $^{147}, ^{148}, ^{148\text{m}}, ^{149}, ^{151}\text{Pm}$, $^{144}, ^{148}, ^{150}, ^{152}, ^{154}, ^{156}\text{Sm}$ (n, γ), E=thermal-30 keV; analyzed, evaluated σ , capture resonance integral. $^{148}, ^{149}, ^{150}, ^{152}\text{Pm}$, $^{145}, ^{149}, ^{151}, ^{153}, ^{155}, ^{157}\text{Sm}$ evaluated average resonance parameters.

Keynumber: 1983WIZJ

Reference: NEANDC(E)-242U, Vol.V, p.8 (1983)

Authors: R.R.Winters, F.Kappeler, K.Wisshak, G.Reffo, A.Mengoni

Title: $^{148}, ^{150}\text{Sm}$: A test for s-process nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS $^{148}, ^{149}, ^{150}\text{Sm}(n,\gamma)$, E=4-250 keV; measured capture σ (E); deduced s-process capture path branching at ^{147}Nd , $^{147}, ^{148}\text{Pm}$, s-process theory validity.

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.

Keynumber: 1978VAZX

Coden: CONF Brookhaven(Neutron Capt γ -Ray Spectr), Proc,P782, Vandenput

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$. ^{151}Sm deduced

levels, J, π , γ -branching, mixing ratios, Nilsson assignments. Coriolis coupling calculation.

Keynumber: 1978VAZG

Coden: CONF BNL(Neutron Capt γ -Ray Spectr), Contrib, No81, Vandenput

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n, \gamma)$; analyzed available data. ^{151}Sm levels deduced branching ratio, δ , structure. Coriolis mixing calculation.

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

Keynumber: 1976SMZP

Reference: ANL-76-96, p.126 (1976)

Authors: R.K.Smith, D.L.Bushnell, G.D.Loper

Title: Nuclear Structure of the Odd-N Sm Isotopes ^{145}Sm , ^{149}Sm , ^{151}Sm , ^{153}Sm , and ^{155}Sm

Keyword abstract: NUCLEAR REACTIONS $^{144, 148, 150, 152, 154}\text{Sm}(n, \gamma)$, $E=\text{th, res}$; measured γ -spectra. $^{145, 149, 151, 153, 155}\text{Sm}$ deduced levels.

Keynumber: 1975SMZL

Coden: CONF Petten(Neutron Capture γ -ray Spect), Proc P358

Keyword abstract: NUCLEAR REACTIONS $^{144, 146, 148, 150, 152, 154}\text{Sm}(n, \gamma)$; measured γ -spectra. $^{145, 147, 149, 151, 153, 155}\text{Sm}$ deduced levels, J, π .

Keynumber: 1974SMZN

Reference: Contrib.Int.Symp.Neutron Capture Gamma Ray Spectroscopy and Related Topics, 2nd, Petten, p.133 (1974)

Authors: R.K.Smith

Title: Energy Levels in the Odd-N Sm Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{144, 148, 150, 152, 154}\text{Sm}(n, \gamma)$, $E=\text{thermal}$; measured E_γ, I_γ . $^{145, 149, 151, 153, 155}\text{Sm}$ deduced levels, J, π .

Keynumber: 1974SMZC

Reference: CONF-740920-8 (1974)

Authors: R.K.Smith

Title: Energy Levels in the Odd-N Sm Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{144, 146, 148, 150, 152, 154}\text{Sm}(n, \gamma)$; measured E_γ, I_γ . $^{145, 147, 149, 151, 153, 155}\text{Sm}$ deduced resonances, J, π .

Keynumber: 1973SMZJ

Coden: REPT ANL-8035 P13

Keyword abstract: NUCLEAR REACTIONS $^{144, 148, 150, 152, 154}\text{Sm}(n, \gamma)$; measured $\sigma(E_\gamma)$. $^{145, 149, 151, 153, 155}\text{Sm}$ deduced levels.

Keynumber: 1973SMZI

Coden: REPT ANL-8035 P17

Keyword abstract: NUCLEAR REACTIONS $^{148, 150, 152, 154}\text{Sm}(n,\gamma)$; measured $\sigma(E\gamma)$. $^{149, 151, 153, 155}\text{Sm}$ deduced levels.

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

Keynumber: 1972VAZB

Coden: REPT SCK/CEN 1971 Annual,BLG -467,P van Assche,P3-30,CRL

Keyword abstract: NUCLEAR REACTIONS ^{150}Sm , ^{178}Hf , $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma, I\gamma$. ^{151}Sm , ^{179}Hf , ^{182}Ta deduced levels, J,π .

Keynumber: 1972VAYT

Coden: REPT BLG-481 P4-27

Keyword abstract: NUCLEAR REACTIONS ^{150}Sm , ^{178}Hf , $^{181}\text{Ta}(n,\gamma)$,E=thermal; measured $E\gamma, E$ (ce), $\gamma\gamma$ -coin. ^{151}Sm , ^{179}Hf , ^{182}Ta deduced transitions.

Keynumber: 1972SMZZ

Coden: JOUR BAPSA 17 28,R K Smither,1/13/72

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n,\gamma)$,E=resonance; measured $E\gamma, I\gamma$. ^{151}Sm deduced levels, J,π .

Keynumber: 1972SMZO

Reference: ANL-7971, p.13 (1972)

Authors: R.K.Smith, D.J.Buss, D.L.Bushnell

Title: The Isotopes of Samarium

Keyword abstract: NUCLEAR REACTIONS $^{149, 150, 152, 154}\text{Sm}(n,\gamma)$; measured $E\gamma, I\gamma$. $^{150, 151, 153, 155}\text{Sm}$ deduced levels, J,π,γ -multipolarities.

Keynumber: 1972SMZM

Coden: REPT INDC(USA)-43 U,P19,10/20/72

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n,\gamma)$,E=resonance; measured $E\gamma, I\gamma$. ^{151}Sm deduced levels, J,π .

Keynumber: 1972SMZJ

Coden: REPT ANL-7971,R Smither,2/27/73

Keyword abstract: NUCLEAR REACTIONS $^{149, 150, 152, 154}\text{Sm}(n,\gamma)$,E=resonance; measured $E\gamma, I\gamma$. $^{151, 150, 153}\text{Sm}$ deduced levels, J,π .

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: 1972BEZY

Reference: Program and Theses, Proc.22nd Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kiev, Pt.1, p.112 (1972)

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

Title: Several Transitions and Levels in ^{150}Sm

Keyword abstract: NUCLEAR REACTIONS $^{150}\text{Sm}(n,\gamma)$; measured $E\gamma, I\gamma$. ^{150}Sm deduced levels, J, π , transitions, $B(\lambda)$.

Keynumber: 1971SMZO

Coden: REPT BNL-50298,P16,10/21/71

Keyword abstract: NUCLEAR REACTIONS $^{144, 148, 150, 152, 154}\text{Sm}(n,\gamma)$, $E=\text{thermal}$, resonance; measured $E\gamma, I\gamma$; deduced Q . $^{145, 149, 151, 153, 155}\text{Sm}$ deduced levels, J, π .

Keynumber: 1971GRZL

Reference: Program and Theses, Proc.21st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Moscow, Pt.1, p.95 (1971)

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

Title: Study of γ -Ray Spectra from the Reaction $^{150}\text{Sm}(n,\gamma)^{151}\text{Sm}$ and $^{151}\text{Sm}(n,\gamma)^{152}\text{Sm}$

Keyword abstract: NUCLEAR REACTIONS $^{150, 151}\text{Sm}(n,\gamma)$, $E=\text{slow}$; measured $E\gamma, I\gamma$; deduced Q . $^{151, 152}\text{Sm}$ deduced transitions.

Keynumber: 1971GRZD

Coden: CONF Moscow(NuclSpectros,Structure) Abstr P95

Keyword abstract: NUCLEAR REACTIONS $^{150, 151}\text{Sm}(n,\gamma)$, $E=\text{th}$; measured $E\gamma, I\gamma$; deduced Q . $^{151, 152}\text{Sm}$ deduced levels, transitions.

Keynumber: 1971GR22

Reference: Yad.Fiz. 13, 681 (1971); Sov.J.Nucl.Phys. 13, 387 (1971)

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

Title: γ -Ray Spectrum from Reaction (n,γ) on Sm^{150} and Sm^{151} Samples

Keyword abstract: NUCLEAR REACTIONS $^{150, 151}\text{Sm}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$; deduced Q . $^{151, 152}\text{Sm}$ deduced transitions.

Keynumber: 1970SMZZ

Reference: Bull.Amer.Phys.Soc. 15, No.4, 549, EG5 (1970)

Authors: R.K.Smith, D.J.Buss, D.L.Bushnell

Title: Energy Levels in the Odd-A Sm Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{144, 148, 150, 152, 154}\text{Sm}(n,\gamma)$, $E = \text{thermal}$; measured $E\gamma, I\gamma$; deduced Q . $^{145, 149, 151, 153, 155}\text{Sm}$ deduced levels, J, π . Ge(Li) detector, bent-crystal spectrometer.

Keynumber: 1970GRYZ

Coden: REPT IAE-1976,4/19/72

Keyword abstract: NUCLEAR REACTIONS $^{150}, ^{151}\text{Sm}(n,\gamma)$; measured $E\gamma, I\gamma$; deduced Q. $^{151}, ^{152}\text{Sm}$
deduced levels, J, π .
