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Keynumber: **2001BE33**
Reference: Phys.Rev. C64, 015801 (2001)
Authors: J.Best, H.Stoll, C.Arlandini, S.Jaag, F.Kappeler, K.Wisshak, A.Mengoni, G.Reffo, T.Rauscher
Title: s-Process Branchings at ^{151}Sm, ^{154}Eu, and ^{163}Dy
Keyword abstract: NUCLEAR REACTIONS ^{151}, ^{153}Eu, ^{152}, ^{154}Sm, ^{164}, ^{170}Er(n,γ),E=spectrum; measured σ. ^{151}, ^{152}, ^{153}, ^{154}, ^{155}Eu(n,γ),E=1-2000 keV; calculated σ. Activation technique,comparisons with previous measurements. Astrophysical implications discussed.

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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
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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.

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Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{50}Cr, ^{59}Co, ^{64}Zn, ^{75}As, ^{85}Rb, ^{113}In, ^{121}, ^{123}Sb, ^{130}Ba, ^{133}Cs, ^{139}La, ^{140}, ^{142}Ce, ^{146}Nd, ^{151}, ^{153}Eu, ^{152}Gd, ^{152}Sm, ^{159}Tb, ^{165}Ho, ^{174}Yb, ^{180}Hf, ^{181}Ta, ^{186}W, ^{232}Pa, ^{238}Np(n,γ),E=reactor; measured Eγ,Iγ; deduced capture σ,resonance integral,least-squares fit parameters. Multi-element standard.

Keynumber: 1997GOZZ
Reference: Priv.Comm. (1997)
Authors: A.Gollwitzer
Title:
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm(n,γ), ^{154}Sm(polarized d,t), (p,d),E not given; analyzed data. ^{153}Sm deduced levels,J,π,spectroscopic factors.

Keynumber: 1994LU22
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Title: Measurement of Neutron Capture Cross Section for ^{152}Sm
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Keynumber: 1990PI19
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Authors: A.E.Pillay, C.Mboweni
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Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{154}Sm, ^{151}, ^{153}Eu(n,γ),E=thermal; measured delayed X-ray spectra. Thermalized beam from ^{252}Cf source.

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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}, ^{148m}, ^{149}, ^{151}Pm, ^{144}, ^{148}, ^{150}, ^{152}, ^{154}, ^{156}Sm

(n,γ),E=thermal-30 keV; analyzed,evaluated σ,capture resonance integral. ^{148}, ^{149}, ^{150}, ^{152}Pm, ^{145}, ^{149}, ^{151}, ^{153}, ^{155}, ^{157}Sm evaluated average resonance parameters.

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Keynumber: 1981BAZF
Reference: Program and Thesis, Proc.31st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Samarkand, p.101 (1981)
Authors: I.F.Barchuk, V.I.Golyshkin, E.N.Gorban
Title:
Keyword abstract: NUCLEAR REACTIONS ^{148}, ^{152}, ^{154}Sm(n,γ),E=thermal; measured Eγ,Iγ. ^{149}, ^{153}Sm deduced levels,neutron separation energy (S(n)). ^{155}Sm deduced transitions.

Keynumber: 1980DEZJ
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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: 1979AG02
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Authors: H.M.Agrawal, M.L.Sehgal
Title: Statistical Theory Calculations of Neutron-Capture Cross-Sections at 24 keV
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{55}Mn, ^{63}, ^{65}Cu, ^{69}, ^{71}Ga, ^{75}As, ^{79}, ^{81}Br, ^{80}Se, ^{85}, ^{87}Rb, ^{89}Y, ^{93}Nb, ^{96}Zr, ^{98}, ^{100}Mo, ^{107}, ^{109}Ag, ^{108}Pd, ^{114}Cd, ^{115}In, ^{127}I, ^{133}Cs, ^{138}Ba, ^{139}La, ^{140}, ^{142}Ce, ^{141}Pr, ^{152}, ^{154}Sm, ^{158}, ^{160}Gd, ^{164}Dy, ^{165}Ho, ^{170}Er, ^{175}Lu, ^{180}Hf, ^{181}Ta, ^{184}, ^{186}W, ^{185}, ^{187}Re, ^{197}Au, ^{202}Hg, ^{208}Pb, ^{209}Bi, ^{232}Th(n,γ),E=24 keV; calculated σ; deduced ratio of average Γγ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

Keynumber: 1978KO04
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Keyword abstract: NUCLEAR REACTIONS ^{142}, ^{144}, ^{146}, ^{148}, ^{150}Nd, ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm, ^{156}, ^{158}, ^{160}Gd, ^{166}, ^{168}, ^{170}Er(n,γ),E=5-350 keV; measured σ(E).

Keynumber: 1976SMZP
Reference: ANL-76-96, p.126 (1976)
Authors: R.K.Smither, D.L.Bushnell, G.D.Loper
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Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ),E=th,res; measured γ-spectra. ^{145}, ^{149}, ^{151}, ^{153}, ^{155}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}Sm(n,γ); measured γ-spectra. ^{145}, ^{147}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels,J,π.

Keynumber: 1975CHZT
Coden: REPT ERDA/NDC-2, p31, Chrien
Keyword abstract: NUCLEAR REACTIONS ^{162}, ^{164}Dy, ^{152}Sm, ^{156}Gd, ^{170}Yb, ^{158}, ^{160}Gd, ^{164}, ^{166}, ^{168}, ^{170}Er(n,γ), E=0.0253 eV; measured σ(Eγ). ^{163}, ^{165}Dy, ^{153}Sm, ^{151}Gd, ^{171}Yb resonances deduced J,π.

Keynumber: 1974SMZN
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Authors: R.K.Smither
Title: Energy Levels in the Odd-N Sm Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ),E=thermal; measured Eγ,Iγ. ^{145}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels,J,π.

Keynumber: 1974SMZC
Reference: CONF-740920-8 (1974)
Authors: R.K.Smither
Title: Energy Levels in the Odd-N Sm Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{146}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ); measured Eγ,Iγ. ^{145}, ^{147}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced resonances,J,π.

Keynumber: 1974SI11
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Authors: K.Siddappa, M.S.Murty, J.R.Rao
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Keyword abstract: NUCLEAR REACTIONS ^{138}Ba, ^{140}, ^{142}Ce, ^{146}, ^{148}Nd, ^{152}, ^{154}Sm, ^{158}, ^{160}Gd, ^{159}Tb, ^{169}Tm, ^{170}Er, ^{174}, ^{176}Yb, ^{180}Hf, ^{181}Ta, ^{186}W, ^{190}, ^{192}Os, ^{197}Au, ^{202}Hg(n,γ),E=18-28 keV; measured σ; deduced p-wave strength functions.
Reference: Can.J.Phys. 52, 1160 (1974)
Authors: B.Singh, M.W.Johns
Title: Spin Determinations in Low Lying States of ^{151}Sm
Keyword abstract: RADIOACTIVITY ^{151}Pm; measured γγ(θ),Iγ. ^{151}Sm levels deduced J,π,γ-

mixing,λ.

Keynumber: 1974COZX
Coden: JOUR BAPSA 19 111 KI13
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm, ^{162}, ^{164}Dy, ^{170}Yb, ^{186}W(n,γ); measured σ(E). ^{153}Sm, ^{163}, ^{165}Dy, ^{171}Yb, ^{187}W levels deduced level-width.

Keynumber: 1974COYX
Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P31
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm, ^{170}Yb, ^{162}, ^{164}Dy, ^{186}W(n,γ),E=0.025 eV,thermal; measured σ.

Keynumber: 1974COYK
Coden: REPT BNL-18976,mf
Keyword abstract: NUCLEAR REACTIONS ^{162}, ^{164}Dy, ^{152}Sm, ^{170}Yb, ^{186}W(n,γ),E=epithermal; measured σ(Eγ). ^{163}, ^{165}Dy, ^{153}Sm resonances deduced J.

Keynumber: 1973SMZJ
Coden: REPT ANL-8035 P13
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ); measured σ(Eγ). ^{145}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels.

Keynumber: 1973SMZI
Coden: REPT ANL-8035 P17
Keyword abstract: NUCLEAR REACTIONS ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ); measured σ(Eγ). ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels.

Keynumber: 1973RAXW
Coden: REPT COO-2176-20 P1
Keyword abstract: NUCLEAR REACTIONS Er, ^{152}, ^{154}Sm, ^{151}, ^{153}Eu, ^{232}U,Fe,La,In,Ta,F,Mg, Al,S,Cl,K,Ca(n,γ); measured σ(E). ^{153}, ^{155}Sm, ^{152}, ^{154}Eu, ^{233}U deduced resonances.

Keynumber: 1973LAYT
Reference: INDC(HUN)-11/L, p.26 (1973)
Authors: L.Lakosi, A.Veres
Title: Activation Experiments of Photo-Neutrons by using ^{24}Na-Be Source
Keyword abstract: NUCLEAR REACTIONS ^{55}Mn, ^{114}, ^{116}Cd, ^{115}In, ^{127}I, ^{152}, ^{154}Sm, ^{166}, ^{170}Er, ^{175}Lu, ^{191}, ^{193}Ir(n,γ), ^{107}, ^{109}Ag, ^{111}Cd, ^{115}In, ^{167}Er, ^{176}Lu(n,n'γ); measured σ.

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: 1973HAYX
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Authors: Y.D.Harker, R.G.Nisle, E.H.Turk, J.R.Berreth
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Keyword abstract: NUCLEAR REACTIONS ^{87}Rb, ^{99}Tc, ^{102}, ^{104}Ru, ^{115}In, ^{121}, ^{123}Sb, ^{127}I, ^{132}, ^{134}Xe, ^{133}Cs, ^{141}Pr, ^{147}Pm, ^{148}, ^{150}Nd, ^{152}, ^{154}Sm(n,γ),E=reactor spectrum; measured σ.

Keynumber: 1973COYA
Coden: JOUR BAPSA 18 1402 CE8
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm(n,γ); measured Eγ,Iγ. ^{153}Sm deduced levels.

Keynumber: 1973COXE
Coden: REPT EANDC(US)-186'U' P39
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm(n,γ),E=8-238 eV; measured σ(E;Eγ). ^{153}Sm deduced levels.

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: 1972RA26
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Keynumber: 1971SMZO
Coden: REPT BNL-50298,P16,10/21/71
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ),E=thermal,resonance; measured Eγ,Iγ; deduced Q. ^{145}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels,J,π.

Keynumber: 1971HAXR
Coden: REPT NCSAC-42,P61,G Hacken,5/19/72
Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{154}Sm, ^{151}, ^{153}Eu, ^{154}, ^{158}, ^{160}Gd, ^{166}, ^{167}, ^{168}, ^{170}Er, ^{168}, ^{170}, ^{171}, ^{172}, ^{174}, ^{176}Yb, ^{175}Lu, ^{182}, ^{183}, ^{184}, ^{186}W(n,γ), measured capture resonance integrals.

Keynumber: 1971BE41
Reference: Nucl.Phys. A171, 113 (1971)
Authors: M.J.Bennett, R.K.Sheline, Y.Shida
Title: Levels in ^{153}Sm
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm(n,γ),E=thermal; measured Eγ,Iγ,deducedq. ^{154}Sm (d,t),E=12.0 MeV; measured σ(Et,θ). ^{153}Sm deduced levels,J,π,K.

Keynumber: 1970SMZZ
Reference: Bull.Amer.Phys.Soc. 15, No.4, 549, EG5 (1970)
Authors: R.K.Smither, D.J.Buss, D.L.Bushnell
Title: Energy Levels in the Odd-A Sm Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{144}, ^{148}, ^{150}, ^{152}, ^{154}Sm(n,γ), E = thermal; measured Eγ, Iγ; deduced Q. ^{145}, ^{149}, ^{151}, ^{153}, ^{155}Sm deduced levels, J, π. Ge(Li) detector, bent-crystal spectrometer.

Keynumber: 1969SM04
Reference: Phys.Rev. 187, 1632 (1969)
Authors: R.K.Smither, E.Bieber, T.von Egidy, W.Kaiser, K.Wien
Title: Level Scheme of ^{153}Sm Based on (n,γ), (n,e$^-$), and β-Decay Experiments
Keyword abstract: NUCLEAR REACTIONS ^{152}Sm(n,γ), E=thermal; measured Eγ, Iγ, I(ce); deduced Q. ^{153}Sm deduced levels, J, π, ICC, γ-multipolarity, branching ratios. Curved-crystal spectrometer.
Keyword abstract: RADIOACTIVITY ^{153}Pm[from ^{154}Sm(γ,p)]; measured Eγ, Iγ, $T_{1/2}$; deduced Iβ, log ft.

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: 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: 1968NA21
Reference: Thesis, Physikinstitut, Reaktorzentrum Seibersdorf, Austria (1968); SGAE-PH-78/1968
Authors: H.Nabielek
Title: Untersuchung von Obergangsraten Elektromagnetischer Ubergange durch Messung der Lebensdauer Angeregter Kernniveaus nach Neutroneneinfang
Keyword abstract: NUCLEAR REACTIONS ^{55}Mn, ^{197}Au, ^{152}Sm, ^{162}, ^{164}Dy, ^{166}Er, ^{168}Yb(n,γ),E not given; measured γγ-delay. ^{56}Mn, ^{153}Sm, ^{163}, ^{165}Dy, ^{198}Au, ^{167}Er, ^{169}Yb levels deduced $T_{1/2}$.
