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44 reference(s) found :

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 $^{151}, ^{153}\text{Eu}$, $^{152}, ^{154}\text{Sm}$, $^{164}, ^{170}\text{Er}(n,\gamma)$, E=spectrum; measured σ . $^{151}, ^{152}, ^{153}, ^{154}, ^{155}\text{Eu}(n,\gamma)$, E=1-2000 keV; calculated σ . Activation technique, comparisons with previous measurements. Astrophysical implications discussed.

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

Keynumber: 1990PI19

Reference: J.Radioanal.Nucl.Chem. 141, 393 (1990)

Authors: A.E.Pillay, C.Mboweni

Title: The Determination of Eu and Sm by Application of X-Ray Spectrometry to Isotope-Source Activation Analysis

Keyword abstract: NUCLEAR REACTIONS $^{152}, ^{154}\text{Sm}$, $^{151}, ^{153}\text{Eu}(n,\gamma)$, E=thermal; measured delayed X-ray spectra. Thermalized beam from ^{252}Cf source.

Keynumber: 1986SA14

Reference: Ann.Nucl.Energy 13, 287 (1986)

Authors: H.S.Sahota, V.K.Mittal, N.P.S.Sidhu

Title: Neutron Capture Cross-Sections by Comparative γ -Activation

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{115}In , ^{160}Gd , ^{154}Sm , $^{51}\text{V}(\text{n},\gamma)$, $E=1.07\text{--}2.85\text{ MeV}$; analyzed capture σ data; deduced revised values.

Keynumber: 1985VOZV

Reference: Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics, Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.305 (1985)

Authors: T.von Egidy, P.Hungerford, H.H.Schmidt, H.J.Scheerer, A.N.Behkami, G.Hlawatsch, B.Krusche, K.P.Lieb, H.G.Borner, S.A.Kerr, K.Schreckenbach

Title: Structural and Statistical Aspects of Extensive Level Schemes from (n,γ) and Transfer Reactions

Keyword abstract: NUCLEAR REACTIONS ^{19}F , ^{23}Na , ^{27}Al , ^{35}Cl , 39 , 40 , ^{41}K , ^{113}Cd , ^{133}Cs , ^{154}Sm , ^{153}Eu , ^{154}Gd , 160 , $^{162}\text{Dy}(\text{n},\gamma)$, (n,e) , E not given; measured not given. ^{20}F , ^{24}Na , ^{28}Al , ^{36}Cl , 40 , 41 , ^{42}K , ^{114}Cd , ^{134}Cs , ^{155}Sm , ^{154}Eu , ^{155}Gd , 161 , ^{163}Dy deduced levels, γ -transition multipolarity, strength distribution.

Keynumber: 1984AN07

Reference: Ann.Nucl.Energy 11, 173 (1984)

Authors: M.A.Ansari, R.K.Y.Singh, M.L.Seegal, V.K.Mittal, D.K.Avasthi, I.M.Govil

Title: Radiative Capture Cross-Sections of Isotopes of Gd, Sm and V between 1 and 3 MeV

Keyword abstract: NUCLEAR REACTIONS ^{160}Gd , ^{154}Sm , $^{51}\text{V}(\text{n},\gamma)$, $E=1\text{--}3\text{ MeV}$; measured capture $\sigma(E)$ relative to $^{127}\text{I}(\text{n},\gamma)$ reaction σ . Statistical model analysis.

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

Keynumber: 1982SC03

Reference: Nucl.Phys. A376, 149 (1982)

Authors: K.Schreckenbach, A.I.Namenson, W.F.Davidson, T.Von Egidy, H.G.Borner, J.A.Pinston, R.K.Smith, D.D.Warner, R.F.Casten, M.L.Stelts, D.H.White, W.Stoffl

Title: Rotational-Vibrational Band Structure in ^{155}Sm

Keyword abstract: NUCLEAR REACTIONS $^{154}\text{Sm}(\text{n},\gamma)$, $E=\text{thermal}, \geq 100\text{ eV}, 2, 24\text{ keV}$; measured $E\gamma, I\gamma$; $^{154}\text{Sm}(\text{n},\text{e})$, $E=\text{thermal}$; measured $I(\text{ce})$. ^{155}Sm deduced levels, neutron binding energy, transitions, γ -multipolarity, J, π, ICC . Curved crystal, magnetic conversion electron, Ge(Li) pair spectrometers, enriched target. Nilsson model, Coriolis, $\Delta N=2$ couplings.

Keynumber: 1982BA15

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 46, 63 (1982)

Authors: I.F.Barchuk, V.I.Golyshkin, E.N.Gorban

Title: γ -Quanta from the Reactions 148 , 152 , $^{154}\text{Sm}(\text{n},\gamma)^{149}$, 153 , ^{155}Sm using Thermal Neutrons

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

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 $^{147}, ^{149}, ^{154}\text{Sm}$, ^{165}Ho , ^{167}Er , ^{181}Ta , ^{182}W , ^{189}Os , ^{195}Pt , ^{197}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}Ho , ^{168}Er , ^{182}Ta , ^{183}W , ^{190}Os , ^{196}Pt , ^{198}Au , $^{237}, ^{239}\text{U}$ deduced level density parameters. Fermi gas model.

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 $^{148}, ^{152}, ^{154}\text{Sm}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$. $^{149}, ^{153}\text{Sm}$ deduced levels, neutron separation energy ($S(n)$). ^{155}Sm deduced transitions.

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: 1979AG02

Reference: J.Phys.Soc.Jpn. 46, 1 (1979)

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 , $^{63}, ^{65}\text{Cu}$, $^{69}, ^{71}\text{Ga}$, ^{75}As , $^{79}, ^{81}\text{Br}$, ^{80}Se , $^{85}, ^{87}\text{Rb}$, ^{89}Y , ^{93}Nb , ^{96}Zr , $^{98}, ^{100}\text{Mo}$, $^{107}, ^{109}\text{Ag}$, ^{108}Pd , ^{114}Cd , ^{115}In , ^{127}I , ^{133}Cs , ^{138}Ba , ^{139}La , $^{140}, ^{142}\text{Ce}$, ^{141}Pr , $^{152}, ^{154}\text{Sm}$, $^{158}, ^{160}\text{Gd}$, ^{164}Dy , ^{165}Ho , ^{170}Er , ^{175}Lu , ^{180}Hf , ^{181}Ta , $^{184}, ^{186}\text{W}$, $^{185}, ^{187}\text{Re}$, ^{197}Au , ^{202}Hg , ^{208}Pb , ^{209}Bi , $^{232}\text{Th}(n,\gamma)$, $E=24$ keV; calculated σ ; deduced ratio of average $\Gamma\gamma$ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

Keynumber: 1978SCZW

Coden: JOUR BAPSA 23 91 JE7 Schrenkenbach

Keyword abstract: NUCLEAR REACTIONS $^{154}\text{Sm}(n,\gamma)$; measured γ -spectra, ce-spectra. ^{155}Sm deduced levels, K, J, π .

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

Keynumber: 1977SMZW

Coden: JOUR VDPEA No6/1977,937,A7-5,Smither

Keyword abstract: NUCLEAR REACTIONS $^{154}\text{Sm}(n,\gamma)$; measured γ ,ce spectra. ^{155}Sm deduced resonances,levels, π .

Keynumber: 1977SMZN

Coden: CONF Tokyo (Nucl Structure),Proc,Vol1,P393,Smither

Keyword abstract: NUCLEAR REACTIONS $^{154}\text{Sm}(n,\gamma)$; measured γ ,ce spectra. ^{155}Sm deduced levels.

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=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 , $^{154}\text{Sm}(n,\gamma)$; measured γ -spectra. 145 , 147 , 149 , 151 , 153 , ^{155}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=thermal; measured E γ ,I γ . 145 , 149 , 151 , 153 , ^{155}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}Sm deduced resonances,J, π .

Keynumber: 1974SI11

Reference: Ann.Phys.(New York) 83, 355 (1974)

Authors: K.Siddappa, M.S.Murty, J.R.Rao

Title: Neutron Strength Functions of Nuclei in the Deformed Region

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 , $^{202}\text{Hg}(n,\gamma)$,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 $\gamma\gamma(\theta)$,I γ . ^{151}Sm levels deduced J, π , γ -

mixing, λ .

Keynumber: 1974COYZ

Coden: REPT USNDC-11 P42

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , ^{170}Yb , ^{186}W , $^{156}\text{Gd}(\text{n},\gamma)$; measured $\sigma(\text{E}\gamma)$.

Keynumber: 1973SMZJ

Coden: REPT ANL-8035 P13

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

Keynumber: 1973SMZI

Coden: REPT ANL-8035 P17

Keyword abstract: NUCLEAR REACTIONS 148 , 150 , 152 , $^{154}\text{Sm}(\text{n},\gamma)$; measured $\sigma(\text{E}\gamma)$. 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 , $\text{Ca}(\text{n},\gamma)$; measured $\sigma(\text{E})$. 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 , $^{193}\text{Ir}(\text{n},\gamma)$, 107 , ^{109}Ag , ^{111}Cd , ^{115}In , ^{167}Er , $^{176}\text{Lu}(\text{n},\text{n}'\gamma)$; 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 , $^{159}\text{Tb}(\text{n},\gamma)$; calculated $\sigma(\text{E})$.

Keynumber: 1973HAYX

Reference: ANCR-1129, p.3 (1973)

Authors: Y.D.Harker, R.G.Nisle, E.H.Turk, J.R.Berreth

Title: Integral Capture Cross Section Measurements of Fission Product Isotopes (CFRMF)

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 , $^{154}\text{Sm}(\text{n},\gamma)$, $\text{E}=\text{reactor spectrum}$; measured σ .

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: 1972SMZJ

Coden: REPT ANL-7971, R Smith, 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: 1972RA26

Reference: Nucl.Sci.Eng. 48, 219 (1972)

Authors: F.Rahn, H.S.Camarda, G.Hacken, W.W.Havens, Jr., H.I.Liou, J.Rainwater, M.Slagowitz, S.Wynchank

Title: Values of the Neutron Resonance Capture Integral for Some Rare Earth Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{152, 154}\text{Sm}$, ^{153}Eu , $^{154, 158, 160}\text{Gd}$, $^{166, 167, 168, 170}\text{Er}$, $^{168, 170, 171, 172, 174, 176}\text{Yb}$, ^{175}Lu , $^{182, 183, 184, 186}\text{W}(n,\gamma)$; calculated resonance integrals.

Keynumber: 1972KA21

Reference: Phys.Lett. 39B, 625 (1972)

Authors: J.Kantele, M.Valkonen

Title: Mass Number Dependence of Activation Capture Cross Sections for 14 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{51}V , ^{81}Br , ^{103}Rh , ^{127}I , ^{154}Sm , ^{160}Gd , ^{165}Ho , $^{170}\text{Er}(n,\gamma)$, $E=14.5$ MeV; measured activation σ .

Keynumber: 1972FA20

Reference: Nucl.Sci.Eng. 49, 317 (1972)

Authors: L.R.Fawcett, Jr., A.K.Furr, J.G.Lindsay

Title: Neutron Capture Cross Sections in the keV Region for ^{154}Sm , ^{160}Gd , ^{164}Dy , and ^{165}Ho

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , ^{160}Gd , ^{164}Dy , $^{165}\text{Ho}(n,\gamma)$, $E=5-160$ keV; measured $\sigma(E)$. ^{155}Sm , ^{161}Gd , ^{165}Dy , ^{166}Ho deduced resonance parameters.

Keynumber: 1971SMZO

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

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

Keynumber: 1971HAXR

Coden: REPT NCSAC-42, P61, G Hacken, 5/19/72

Keyword abstract: NUCLEAR REACTIONS $^{152, 154}\text{Sm}$, $^{151, 153}\text{Eu}$, $^{154, 158, 160}\text{Gd}$, $^{166, 167, 168, 170}\text{Er}$, $^{168, 170, 171, 172, 174, 176}\text{Yb}$, ^{175}Lu , $^{182, 183, 184, 186}\text{W}(n,\gamma)$, measured capture resonance integrals.

Keynumber: 1971GRZK

Reference: Program and Theses, Proc.21st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Moscow, Pt.1, p.99 (1971)

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

Title: De-Excitation Even-Odd Isotopes of Samarium and Gadolinium after Capture of Slow Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , $^{158}\text{Gd}(n,\gamma)$, $E=\text{slow}$; measured E_γ, I_γ ; deduced Q . ^{155}Sm , ^{159}Gd deduced transitions.

Keynumber: 1971GRZC

Coden: CONF Moscow(NuclSpectros,Structure) Abstr P99

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , $^{158}\text{Gd}(n,\gamma)$, $E=\text{th}$; measured E_γ ; deduced Q . ^{155}Sm , ^{159}Gd deduced levels.

Keynumber: 1971GR42

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 35, 1644 (1971); Bull.Acad.Sci.USSR, Phys.Ser. 35, 1497 (1972)

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

Title: Radiations from Even-Odd Samarium and Gadolinium Nuclei Following Thermal-Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , 156 , 158 , $^{160}\text{Gd}(n,\gamma)$, $E=\text{thermal}$; measured E_γ, I_γ, Q . ^{155}Sm , 157 , 159 , ^{161}Gd deduced levels.

Keynumber: 1971FAZS

Coden: CONF SESAPS 38th Mtg,P8,L R Fawcett,11/15/71

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , ^{160}Gd , ^{164}Dy , $^{165}\text{Ho}(n,\gamma)$, $E=5\text{-}160\text{ keV}$; measured $\sigma(E;E_\gamma)$. ^{155}Sm , ^{161}Gd , ^{165}Dy , ^{166}Ho deduced strength functions.

Keynumber: 1971FAZR

Coden: THESIS, Virginia Polytechnic Inst,L R Fawcett,DABBB 32B 2929,12/16/71

Keyword abstract: NUCLEAR REACTIONS ^{154}Sm , ^{160}Gd , ^{164}Dy , $^{165}\text{Ho}(n,\gamma)$, $E=5\text{-}160\text{ keV}$; measured $\sigma(E;E_\gamma)$. ^{155}Sm , ^{161}Gd , ^{165}Dy , ^{166}Ho deduced resonances,strength functions.

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_γ, I_γ ; deduced Q . 145 , 149 , 151 , 153 , ^{155}Sm deduced levels, J, π . Ge(Li) detector, bent-crystal spectrometer.
