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22 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: 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: [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.Zamyatnin, 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.

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: 1984ABZX

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

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

Title:

Keyword abstract: NUCLEAR REACTIONS $^{147, 148, 148m, 149, 151}\text{Pm}$, $^{144, 148, 150, 152, 154, 156}\text{Sm}$ (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, γ),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: 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 $^{148, 152, 154}\text{Sm}$ (n, γ) $^{149, 153, 155}\text{Sm}$ using Thermal Neutrons

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

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, γ),E=thermal; measured $E\gamma, I\gamma$. $^{149, 153, 155}\text{Sm}$ 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, γ),E=0.001-3 MeV; calculated σ (E). Statistical model, optical transmission coefficient input.

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, γ),E=5-350 keV; measured σ (E).

Keynumber: 1976SMZP

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

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

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

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

Keynumber: 1975SMZL

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

Keyword abstract: NUCLEAR REACTIONS ¹⁴⁴, ¹⁴⁶, ¹⁴⁸, ¹⁵⁰, ¹⁵², ¹⁵⁴Sm(n,γ); measured γ-spectra. ¹⁴⁵, ¹⁴⁷, ¹⁴⁹, ¹⁵¹, ¹⁵³, ¹⁵⁵Sm 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.Smithers

Title: Energy Levels in the Odd-N Sm Isotopes

Keyword abstract: NUCLEAR REACTIONS ¹⁴⁴, ¹⁴⁸, ¹⁵⁰, ¹⁵², ¹⁵⁴Sm(n,γ),E=thermal; measured Eγ,Iγ. ¹⁴⁵, ¹⁴⁹, ¹⁵¹, ¹⁵³, ¹⁵⁵Sm deduced levels,J,π.

Keynumber: 1974SMZC

Reference: CONF-740920-8 (1974)

Authors: R.K.Smithers

Title: Energy Levels in the Odd-N Sm Isotopes

Keyword abstract: NUCLEAR REACTIONS ¹⁴⁴, ¹⁴⁶, ¹⁴⁸, ¹⁵⁰, ¹⁵², ¹⁵⁴Sm(n,γ); measured Eγ,Iγ. ¹⁴⁵, ¹⁴⁷, ¹⁴⁹, ¹⁵¹, ¹⁵³, ¹⁵⁵Sm deduced resonances,J,π.

Keynumber: 1973SMZJ

Coden: REPT ANL-8035 P13

Keyword abstract: NUCLEAR REACTIONS ¹⁴⁴, ¹⁴⁸, ¹⁵⁰, ¹⁵², ¹⁵⁴Sm(n,γ); measured σ(Eγ). ¹⁴⁵, ¹⁴⁹, ¹⁵¹, ¹⁵³, ¹⁵⁵Sm deduced levels.

Keynumber: 1973SMZI

Coden: REPT ANL-8035 P17

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

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: 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 σ ; deduced effective resonance integral.

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 = 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.
