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19 reference(s) found :

Keynumber: [2001KO76](#)

Reference: Phys.Rev. C64, 065802 (2001)

Authors: P.E.Koehler, J.A.Harvey, R.R.Winters, K.H.Guber, R.R.Spencer

Title: High-Resolution Neutron Capture and Transmission Measurements for $^{116,120}\text{Sn}$, and Their Stellar Neutron-Capture Cross Sections at s-Process Temperatures

Keyword abstract: NUCLEAR REACTIONS $^{116, 120}\text{Sn}(n,\gamma)$, (n,X) , $E=0.05-500$ keV; measured total and capture σ ; deduced resonance parameters, astrophysical reaction rates. Comparison with previous results.

Keynumber: 1997VOZX

Reference: Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.1, p.475 (1997)

Authors: F.Voss, K.Wisshak, F.Kappeler

Title: Spectroscopy of Capture γ -Ray Cascades with the Karlsruhe $4\pi\text{BaF}_2$ Detector

Keyword abstract: NUCLEAR REACTIONS ^{155}Gd , $^{120}\text{Sn}(n,\gamma)$, E not given; analyzed E_γ, I_γ , multiplicity distributions. $^{114, 115, 116, 117, 118, 120}\text{Sn}$, $^{152, 154, 155, 156, 157, 158}\text{Gd}(n,\gamma)$, E not given; analyzed average multiplicities. Statistical model calculations.

Keynumber: 1997PA24

Reference: Bull.Rus.Acad.Sci.Phys. 61, 163 (1997)

Authors: I.V.Panov

Title: Radiative Neutron Capture and r-Process

Keyword abstract: NUCLEAR REACTIONS $^{116, 118, 120, 122, 124, 119}\text{Sn}$, $^{120, 125, 126, 122, 124, 128, 130}\text{Te}(n,\gamma)$, $E=30$ keV; calculated capture σ ; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

Keyword abstract: NUCLEAR STRUCTURE $A=110-140$; $A=140-180$; $A=230-270$; calculated 30 keV neutron capture σ on neutron rich Cd,Pr,U isotopes; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

Keynumber: 1997KOZL

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.1581 (1997)

Authors: P.E.Koehler, R.R.Spencer, K.H.Guber, J.A.Harvey, N.W.Hill, R.R.Winters

Title: High-Resolution Neutron Capture and Transmission Measurements and the Stellar Neutron Capture Cross Sections of $^{116, 120}\text{Sn}$

Keyword abstract: NUCLEAR REACTIONS $^{116, 120}\text{Sn}(n,\gamma)$, $^{116}\text{Sn}(n,X)$, $E=20-200$ keV; measured σ ; deduced reaction rates. Previous data compared. Implications for astrophysical s-process discussed.

Keynumber: [1996WI20](#)

Reference: Phys.Rev. C54, 2732 (1996)

Authors: K.Wisshak, F.Voss, F.Kappeler

Title: Neutron Capture Resonances in ^{116}Sn , ^{118}Sn , and ^{120}Sn

Keyword abstract: NUCLEAR REACTIONS $^{116, 118, 120}\text{Sn}(n,\gamma)$, $E=3-20$ keV; measured $\sigma(n,\gamma)$. $^{117, 119, 121}\text{Sn}$ deduced resonances, parameters, $g\Gamma_n\Gamma_\gamma/(\Gamma_n+\Gamma_\gamma)$, Maxwellian averaged capture σ .

Keynumber: [1996WI14](#)

Reference: Phys.Rev. C54, 1451 (1996)

Authors: K.Wisshak, F.Voss, Ch.Theis, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, G.Reffo

Title: Stellar Neutron Capture Cross Sections of the Tin Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{114}, ^{115}, ^{116}, ^{117}, ^{118}, ^{120}\text{Sn}(n,\gamma), E=3-225$ keV; measured capture $\sigma(E)$; deduced Maxwellian averaged σ for stellar temperatures $kT=10$ to 100 keV.

Keynumber: 1996AV07

Reference: Bull.Rus.Acad.Sci.Phys. 60, 1716 (1996)

Authors: A.V.Avdeenkov, S.P.Kamerdzhiev

Title: On Application of the Optical Potential Theory to Calculation of Nucleon-Nucleus Cross Sections

Keyword abstract: NUCLEAR REACTIONS $^{120}\text{Sn}, ^{208}\text{Pb}(n,\gamma), E=0-4$ MeV; calculated optical potentials, s-wave absorption σ . Green function potential, particle+phonon states.

Keynumber: 1993KA28

Reference: Astrophys.J. 410, 370 (1993)

Authors: F.Kappeler, W.Schanz, K.Wisshak, G.Reffo

Title: The s-Process Between $A = 120$ and 124 : Signature of neutron density and temperature in red giants

Keyword abstract: NUCLEAR REACTIONS $^{120}\text{Sn}, ^{121}, ^{123}\text{Sb}, ^{128}\text{Te}(n,\gamma), E=\text{quasistellar}$ neutron spectrum; measured σ ; deduced relevance for s-process nucleosynthesis. Activation technique.

Keynumber: 1989TI03

Reference: Yad.Fiz. 50, 609 (1989)

Authors: V.M.Timokhov, M.V.Bokhovko, A.G.Isakov, L.E.Kazakov, V.N.Kononov, G.N.Manturov, E.D.Poletaev, V.G.Pronyaev

Title: Neutron Capture, Total Cross Sections and Average Resonance Parameters for Tin Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{112}, ^{114}, ^{115}, ^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{122}, ^{124}\text{Sn}(n,\gamma), E=20-450$ keV; measured capture $\sigma(E)$. $^{112}, ^{114}, ^{115}, ^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{122}, ^{124}\text{Sn}(n,X), E=20-1400$ keV; measured total $\sigma(E)$; deduced s-, p-wave potential scattering radii, model parameters. $^{113}, ^{115}, ^{116}, ^{117}, ^{118}, ^{119}, ^{121}, ^{122}, ^{123}, ^{125}\text{Sn}$ deduced s-, p-wave, γ -strength functions.

Keynumber: 1984LOZQ

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.1, p.277 (1984)

Authors: G.Longo, F.Fabbri, C.Mazzotti

Title: Angular Distributions of Photons following the Capture of 4-50 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}, ^{120}\text{Sn}(n,\gamma), E=4-50$ MeV; calculated $\sigma(E, E\gamma, \theta)$. Direct-semidirect model.

Keynumber: 1981BA53

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 45, 727 (1981)

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

Title: Levels of ^{121}Sn and ^{125}Sn Excited by Radiative Capture of Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{120}, ^{124}\text{Sn}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma$. $^{121}, ^{125}\text{Sn}$ deduced levels.

Keynumber: 1981AR22

Reference: Yad.Fiz. 34, 1028 (1981)

Authors: L.Ya.Arifov, B.S.Mazitov, V.G.Ulanov

Title: Relative Probability of Isomer Population in Radiative Capture

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc , ^{59}Co , $^{68,70}\text{Zn}$, $^{74,76}\text{Ge}$, $^{80,82}\text{Se}$, ^{84}Kr , ^{85}Rb , ^{84}Sr , ^{89}Y , ^{103}Rh , $^{108,110}\text{Pd}$, ^{109}Ag , ^{114}Cd , $^{113,115}\text{In}$, $^{112,120,122,124}\text{Sn}$, ^{121}Sb , $^{120,126,128,130}\text{Te}$, ^{133}Cs , ^{132}Ba , $^{136,138}\text{Ce}$, ^{151}Eu , ^{164}Dy , ^{181}Ta , ^{184}W , ^{187}Re , ^{190}Os , ^{191}Ir , ^{196}Pt , ^{196}Hg

(n, γ),E=thermal,0.2-2.8 MeV; $^{92}\text{Mo}(p,\gamma)$,E=1.8-7.4 MeV; analyzed $\sigma(\text{capture})$ isomer ratio vs E. Statistical theory.

Keynumber: 1980BAZC

Coden: CONF Leningrad,P85,Barchuk

Keyword abstract: NUCLEAR REACTIONS $^{120}\text{Sn}(n,\gamma)$,E=thermal; measured γ -spectra. ^{121}Sn deduced levels,neutron separation energy (S(n)).

Keynumber: 1979BAYJ

Reference: Program and Thesis, Proc.29th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Ridga, p.76 (1979)

Authors: I.F.Barchuk, G.V.Belykh, V.I.Golyshkin, E.N.Gorban, A.F.Ogorodnik

Title: Gamma-Rays from the Reactions $^{120,122,124}\text{Sn}(n,\gamma)^{121,123,125}\text{Sn}$ with Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{120,122,124}\text{Sn}(n,\gamma)$,E=thermal; measured $E\gamma$, $I\gamma$. $^{121,123,125}\text{Sn}$ deduced transitions.

Keynumber: 1978MUZU

Coden: JOUR BAPSA 23 962 FD9,Mughabghab

Keyword abstract: NUCLEAR REACTIONS $^{120}\text{Sn}(n,\gamma)$,E not given; measured relative $I\gamma$ for low $E\gamma$. ^{121}Sn resonances deduced J, π .

Keynumber: 1975CAZL

Coden: JOUR BAPSA 20 687 HL6

Keyword abstract: NUCLEAR REACTIONS $^{120}\text{Sn}(n,\gamma)$; measured $\sigma(E,E\gamma)$. ^{121}Sn deduced resonances, γ -branching ratios.

Keynumber: 1972BHZZ

Coden: CONF Budapest,Contributions,P60,M Bhat,10/11/72

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , ^{96}Zr , ^{98}Mo , $^{116,118,120,122,124}\text{Sn}$ (n, γ),E=resonance; measured $I\gamma(\theta)$. ^{57}Fe , ^{97}Zr , ^{99}Mo , $^{117,119,121,123,125}\text{Sn}$ resonances, levels deduced J.

Keynumber: 1968BH01

Reference: Phys.Rev. 166, 1111(1968)

Authors: M.R.Bhat, R.E.Chrien, O.A.Wasson, M.Beer, M.A.Lone

Title: Investigation of γ Rays Following s- and p-Wave Neutron Capture in Tin Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{117,118,120,124}\text{Sn}(n,\gamma)$,E=0.02-500 eV; measured $E\gamma$, $I\gamma$, $\sigma(\theta(\gamma))$. $^{118,119,121,125}\text{Sn}$ deduced resonances,J, π ,level-width. $^{118,119,121,125}\text{Sn}$ deduced levels,J, π .

Keynumber: 1966HAZY

Reference: ORNL-3924, p.37 (1966)

Authors: J.A.Harvey, G.G.Slaughter, M.J.Martin

Title: High-Resolution Measurements of Gamma Rays from Thermal- and Resonance-Neutron Capture in the Isotopes of Tin

Keyword abstract: NUCLEAR REACTIONS $^{114, 115, 116, 117, 118, 119, 120, 122, 124}\text{Sn}(n,\gamma), E=\text{thermal}$, resonance; measured $\sigma(E\gamma), I\gamma$. $^{116, 117, 118, 119, 120, 121, 123, 125}\text{Sn}$ deduced levels. $^{118, 122}\text{Sn}$ deduced resonance.
