

Visit the [Isotope Explorer](#) home page!

15 reference(s) found :

Keynumber: 1985KI09

Reference: J.Nucl.Sci.Technol.(Tokyo) 22, 337 (1985)

Authors: Y.Kikuchi, N.Sekine

Title: Evaluation of Neutron Nuclear Data of Natural Nickel and Its Isotopes

Keyword abstract: NUCLEAR REACTIONS Ni, ⁵⁸, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni(n,n), (n,n'), (n,γ), (n,2n), (n,3n), (n,p), (n,α), (n,n'p), (n,n'α), E < 20 MeV; calculated σ(E); deduced average capture σ(E). Spherical optical, statistical models.

Keynumber: 1983SA30

Reference: Aust.J.Phys. 36, 583 (1983)

Authors: D.G.Sargood

Title: Effect of Excited States on Thermonuclear Reaction Rates

Keyword abstract: NUCLEAR REACTIONS, ICPND ²⁰, ²¹, ²²Ne, ²³Na, ²⁴, ²⁵, ²⁶Mg, ²⁷Al, ²⁸, ²⁹, ³⁰Si, ³¹P, ³², ³³, ³⁴S, ³⁵, ³⁷Cl, ³⁶, ³⁸, ⁴⁰Ar, ³⁹, ⁴⁰, ⁴¹K, ⁴⁰, ⁴², ⁴³, ⁴⁴, ⁴⁶, ⁴⁸Ca, ⁴⁵Sc, ⁴⁶, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰Ti, ⁵⁰, ⁵¹V, ⁵⁰, ⁵², ⁵³, ⁵⁴Cr, ⁵⁵Mn, ⁵⁴, ⁵⁶, ⁵⁷, ⁵⁸Fe, ⁵⁹Co, ⁵⁸, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni, ⁶³, ⁶⁵Cu, ⁶⁴, ⁶⁶, ⁶⁷Zn(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), ⁷⁰Zn(p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), E=low; compiled target thermal distribution energy state to ground state thermonuclear reaction rate of reaction σ vs temperature. Statistical model.

Keynumber: 1980PIZN

Coden: CONF Kiev(Neutron Physics) Proc, Part3, P270, Pisanko

Keyword abstract: NUCLEAR REACTIONS ²², ²³Na, Mg, ²⁴, ²⁵, ²⁶Mg, ²⁷Al, Si, ²⁸, ²⁹, ³⁰Si, ³¹P, S, ³², ³³, ³⁴S, Cl, ³⁵, ³⁶, ³⁷Cl, Ar, ³⁶, ³⁸, ⁴⁰Ar, K, ³⁹, ⁴⁰, ⁴¹K, Ca, ⁴⁰, ⁴², ⁴³, ⁴⁴, ⁴⁶, ⁴⁸Ca, ⁴⁵, ⁴⁶Sc, Ti, ⁴⁶, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰Ti, V, ⁵⁰, ⁵¹V, Cr, ⁵⁰, ⁵², ⁵³, ⁵⁴Cr, Fe, ⁵⁴, ⁵⁶, ⁵⁷, ⁵⁸Fe, ⁵⁹Co, Ni, ⁵⁸, ⁵⁹, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni, Cu, ⁶³, ⁶⁵Cu, Zn, ⁶⁴, ⁶⁶, ⁶⁷, ⁶⁸, ⁷⁰Zn, Ga, ⁶⁹, ⁷¹Ga(n,γ), (n,n), (n,α), E=thermal; evaluated σ, radiative capture resonance integrals.

Keynumber: 1975WI06

Reference: Phys.Rev. C11, 1477 (1975)

Authors: W.M.Wilson, G.E.Thomas, H.E.Jackson

Title: Thermal Neutron Capture Gamma Rays from Neutron Capture in ⁵⁹Ni and ⁶³Ni

Keyword abstract: NUCLEAR REACTIONS ⁵⁸, ⁵⁹, ⁶⁰, ⁶¹, ⁶³Ni(n,γ), E=thermal; measured E_γ, I_γ. ⁵⁹, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni deduced levels, binding energies.

Keynumber: 1975FRZV

Coden: JOUR BAPSA 20 174 IB21

Keyword abstract: NUCLEAR REACTIONS ⁵⁶Fe, ⁵⁸, ⁶⁰, ⁶¹Ni(n,γ); calculated σ.

Keynumber: 1974PAZO

Coden: REPT USNDC-11 P221

Keyword abstract: NUCLEAR REACTIONS ⁵⁴Fe, ⁶¹Ni(n,X), (n,γ), E=15-100 keV; measured σ.

Keynumber: 1974PAZM

Coden: REPT COO-3058-50 P5

Keyword abstract: NUCLEAR REACTIONS $^{54}, ^{58}\text{Fe}$, $^{61}\text{Ni}(n,\gamma)$, (n,X) , $E=15-100$ keV; measured σ , total σ .

Keynumber: 1973KNZZ

Coden: REPT COO-3058-34 P3 (CRL)

Keyword abstract: NUCLEAR REACTIONS ^{54}Fe , $^{61}\text{Ni}(n,\gamma)$, $E=10-200$ keV; measured $\sigma(E)$. ^{62}Ni deduced resonances.

Keynumber: 1972MO46

Reference: Nucl.Instrum.Methods 105, 557 (1972)

Authors: R.Moreh, T.Bar-Noy

Title: Utilization of 11.4 MeV Photons from the $^{59}\text{Ni}(n,\gamma)^{60}\text{Ni}$ Reaction for Scattering Experiments

Keyword abstract: NUCLEAR REACTIONS $^{59}, ^{61}, ^{63}\text{Ni}(n,\gamma)$; $E=\text{reactor spectrum}$; measured $E\gamma$, $^{60}, ^{62}, ^{64}\text{Ni}$ deduced $E\gamma$.

Keynumber: 1972HOYH

Coden: REPT COO-3058-27,P14

Keyword abstract: NUCLEAR REACTIONS ^{54}Fe , ^{58}Fe , $^{61}, ^{64}\text{Ni}(n,X)$, (n,γ) , $E=0.1-35$ keV; measured $\sigma(E)$, $\sigma(nT)(E)$. $^{55}, ^{59}\text{Fe}$, $^{62}, ^{65}\text{Ni}$ deduced resonances.

Keynumber: 1970FA06

Reference: Nucl.Phys. A146, 549 (1970)

Authors: U.Fanger, D.Heck, W.Michaelis, H.Ottmar, H.Schmidt, R.Gaeta

Title: The Excited States of ^{62}Ni Studied by the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{61}\text{Ni}(n,\gamma)$, $E=\text{th}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma\text{-coin}$, $\gamma\gamma(\theta)$; deduced Q . ^{62}Ni deduced levels, J , π , γ -mixing, γ -branching. Enriched target; Ge(Li), NaI(Tl) detectors.

Keynumber: 1969HO12

Reference: Phys.Rev. 178, 1746 (1969)

Authors: R.W.Hockenbury, Z.M.Bartolome, J.R.Tatarczuk, W.R.Moyer, R.C.Block

Title: Neutron Radiative Capture in Na, Al, Fe, and Ni from 1 to 200 keV

Keyword abstract: NUCLEAR REACTIONS ^{23}Na , ^{27}Al , $^{54}, ^{56}, ^{57}, ^{58}\text{Fe}$, $^{58}, ^{60}, ^{61}, ^{62}, ^{64}\text{Ni}(n,\gamma)$, $E=0.1-200$ keV; measured $\sigma(E)$. ^{24}Na , ^{28}Al , $^{55}, ^{57}, ^{58}, ^{59}\text{Fe}$, $^{59}, ^{61}, ^{62}, ^{63}, ^{65}\text{Ni}$ deduced resonance parameters.

Keynumber: 1969FAZZ

Reference: Contrib.Intern.Conf.Properties Nucl.States, Montreal, Canada, p.4 (1969)

Authors: U.Fanger, R.Gaeta, W.Michaelis, H.Ottmar, H.Schmidt

Title: Properties of Excited States in ^{62}Ni Studied by the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{61}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $\gamma\gamma\text{-coin}$, $\gamma\gamma(\theta)$; deduced Q . ^{62}Ni deduced levels, J , π , γ -branching. Ge(Li) detector.

Keynumber: 1967FAZZ

Reference: Intern.Conf.Nucl.Structure, Tokyo, p.152(1967); KFK-616

Authors: U.Fanger, G.Markus, W.Michaelis, H.Ottmar, H.Schmidt

Title: Nuclear Structure Studies with Radiative Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{57}Fe , $^{61}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma\text{-coin}$. ^{58}Fe ,

^{62}Ni deduced levels, J, π . $^{87}\text{Sr}(n, \gamma), E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma(\theta)$. ^{88}Sr deduced levels, J, π .

Keynumber: 1966WAZY

Reference: Proc.Intern.Conf.Study of Nucl.Struct.With Neutrons, Antwerp, Belgium (1965), M.N.de Meevergnes, P.Van Assche, J.Vervier, Eds., North-Holland Publishing Co., Amsterdam, p.536 (1966); EANDC-50-S, Paper 99 (1966)

Authors: R.Wagner, W.M.Good, D.Paya

Title: s-Wave Neutron Strength Functions of Isotopes in the 3s-Resonance Region $40 < A < 70$

Keyword abstract: NUCLEAR REACTIONS ^{43}Ca , 47 , ^{49}Ti , ^{53}Cr , ^{57}Fe , $^{61}\text{Ni}(n, \gamma), E=2-60 \text{ keV}$; $\sigma(\text{nt})$ (E). ^{44}Ca , 48 , ^{50}Ti , ^{54}Cr , ^{58}Fe , ^{62}Ni deduced resonances, level spacings, strength functions.