

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

40 reference(s) found :

Keynumber: 2001PO13

Reference: Nucl.Instrum.Methods Phys.Res. A463, 309 (2001)

Authors: Yu.P.Popov, A.V.Voinov, P.V.Sedyshev, S.S.Parzhitsky, A.P.Kobzev, N.A.Gundorin, D.G.Serov, M.V.Sedysheva

Title: Neutron Spectrometry Method for Partial Radiative Capture Cross-Section Measurements

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,\gamma)$, $E \approx 10\text{-}90$ keV; measured $E\gamma, I\gamma$; deduced σ (E), resonance parameters.

Keynumber: 2000PO08

Reference: Yad.Fiz. 63, No 4, 583 (2000); Phys.Atomic Nuclei 63, 525 (2000)

Authors: Yu.P.Popov, A.V.Voinov, S.S.Parzhitsky, N.A.Gundorin, D.G.Serov, A.P.Kobzev, P.V.Sedyshev

Title: Measurements of a Partial Cross Section for the Reaction $^{58}\text{Ni}(n,\gamma^0)^{59}\text{Ni}$

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,\gamma)$, $E=10\text{-}120$ keV; measured $E\gamma, \sigma$, neutron resonance parameters, radiative strength function. Comparison with other measurements.

Keynumber: 1999DE10

Reference: Ann.Nucl.Energy 26, 1253 (1999)

Authors: K.Devan, R.S.Keshavamurthy

Title: A Rational Approximation to Reich-Moore Collision Matrix of Non-Fissile Nuclides

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,n)$, (n,γ) , $E \approx 15.3, 285.4$ keV; calculated σ . Rational approximation to collision matrix.

Keynumber: 1998PO22

Reference: Bull.Rus.Acad.Sci.Phys. 62, 709 (1998)

Authors: Yu.P.Popov, P.V.Sedyshev, N.A.Gundorin, M.V.Sedysheva, A.P.Kobzev, S.S.Parzhitsky

Title: Analysis of Neutron Spectra in the Energy Range of 2-100 keV using High-Resolution γ Spectrometry

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , ^{70}Ge , $^{58}\text{Ni}(n,\gamma)$, $E=\text{spectrum}$; measured $E\gamma, I\gamma$. Method proposed for neutron spectrometry.

Keynumber: 1997VE03

Reference: Appl.Radiat.Isot. 48, 493 (1997)

Authors: L.Venturini, B.R.S.Pecequilo

Title: Thermal Neutron Capture Cross-Section of ^{48}Ti , ^{51}V , $^{50, 52, 53}\text{Cr}$ and $^{58, 60, 62, 64}\text{Ni}$

Keyword abstract: NUCLEAR REACTIONS ^{48}Ti , ^{51}V , $^{50, 52, 53}\text{Cr}$, $^{58, 60, 62, 64}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$; deduced capture σ .

Keynumber: 1994YA25

Reference: Nucl.Sci.Eng. 118, 249 (1994)

Authors: N.Yamamuro

Title: Activation Cross-Section Calculations on the Production of Long-Lived Radionuclides

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , $^{58, 62}\text{Ni}$, ^{93}Nb , $^{92, 98}\text{Mo}$, ^{107}Ag , ^{151}Eu , ^{185}Re (n,γ) , ^{60}Ni , ^{63}Cu , ^{94}Mo , $^{158}\text{Dy}(n,p)$, ^{61}Ni , $^{92}\text{Mo}(n,np)$, ^{63}Cu , $^{66}\text{Zn}(n,\alpha)$, $^{60, 64}\text{Ni}$, $^{95, 93}\text{Nb}$, $^{94, 100}\text{Mo}$,

^{109}Ag , 151 , ^{153}Eu , ^{159}Tb , $^{187}\text{Re}(n,2n)$, $^{95}\text{Mo}(n,3n)$, $E \leq 20$ MeV; calculated activation $\sigma(E)$.

Keynumber: 1993SE13

Reference: Nucl.Instrum.Methods Phys.Res. A336, 171 (1993)

Authors: R.Semmler, L.P.Geraldo

Title: A New Experimental Apparatus for Production and Utilization of Capture Gamma Rays

Keyword abstract: NUCLEAR REACTIONS 60 , 58 , ^{62}Ni , $^{14}\text{N}(n,\gamma)$, $E=\text{reactor}$; measured capture γ -ray flux density; deduced device low energy fission usage suitability.

Keynumber: 1993HAZV

Reference: Proc.6th Intern.Conf.on Nuclei Far from Stability + 9th Intern.Conf.on Atomic Masses and Fundamental Constants, Bernkastel-Kues, Germany, 19-24 July, 1992, R.Neugart, A.Wohr, Eds., p.69 (1993)

Authors: A.Harder, S.Michaelsen, A.Jungclaus, K.P.Lieb, A.P.Williams, H.G.Borner

Title: Precision Neutron Binding Energies of 59 , 61 , 63 , ^{64}Ni and ^{90}Y Obtained from Thermal Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS 58 , 60 , ^{62}Ni , $^{89}\text{Y}(n,\gamma)$, $E=\text{thermal}$; measured capture γ spectra. 59 , 61 , 63 , ^{64}Ni , ^{90}Y deduced neutron binding energy, transition $I\gamma$. Double neutron capture on ^{62}Ni .

Keynumber: 1993HA05

Reference: Z.Phys. A345, 143 (1993)

Authors: A.Harder, S.Michaelsen, K.P.Lieb, A.P.Williams

Title: Thermal Neutron Capture γ -Ray Spectroscopy of ^{59}Ni and ^{61}Ni

Keyword abstract: NUCLEAR REACTIONS 58 , $^{60}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$. 59 , ^{61}Ni deduced levels, J, π, γ -transitions, neutron binding energies.

Keyword abstract: NUCLEAR STRUCTURE $A=30-80$; compiled level density parameters; deduced shell structure effects.

Keynumber: 1992KU17

Reference: Nucl.Phys. A549, 59 (1992)

Authors: A.Kuronen, J.Keinonen, H.G.Borner, J.Jolie, S.Ulbig

Title: Molecular Dynamics Simulations Applied to the Determination of Nuclear Lifetimes from Doppler-Broadened γ -Ray Line Shapes Produced in Thermal Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS ^{35}Cl , ^{48}Ti , ^{53}Cr , ^{56}Fe , 60 , $^{58}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; analyzed Doppler broadened γ -ray line shapes. ^{36}Cl levels deduced $T_{1/2}$, M1, E2 transition matrix elements, branching ratio. ^{49}Ti , ^{54}Cr , ^{57}Fe , 61 , ^{59}Ni levels deduced $T_{1/2}$. Molecular dynamics simulations.

Keynumber: 1992HAZV

Reference: Contrib. 6th Intern.Conf.on Nuclei Far from Stability + 9th Intern.Conf.on Atomic Masses and Fundamental Constant, Bernkastel-Kues, Germany, PA4 (1992)

Authors: A.Harder, S.Michaelsen, A.Jungclaus, K.P.Lieb, A.P.Williams, H.G.Borner

Title: Precision Neutron Binding Energies of 59 , 63 , ^{64}Ni and ^{90}Y Obtained from Thermal Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS ^{89}Y , 58 , $^{62}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured γ -spectra following capture. ^{90}Y , 64 , 63 , ^{59}Ni deduced binding energy, $I\gamma$, intermediate states.

Keynumber: 1991UL01

Reference: Z.Phys. A338, 397 (1991)

Authors: S.Ulbig, K.P.Lieb, H.G.Borner, B.Krusche, S.J.Robinson, J.G.L.Booten

Title: GRID Lifetime Measurements in 59 , 61 , 63 Ni following Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS 58 , 60 , 62 Ni(n, γ),E=thermal; measured γ -spectra Doppler shifts,line shapes. 59 Ni levels deduced $T_{1/2}$,B(λ). 61 , 63 Ni levels deduced $T_{1/2}$. GRID technique.

Keynumber: 1986PE19

Reference: Radiat.Eff. 96, 297 (1986)

Authors: C.M.Perey, F.G.Perey, J.A.Harvey, N.W.Hill, R.L.Macklin

Title: 58 Ni + n Transmission,Capture and Differential Elastic Scattering Data Analysis in the Resonance Region

Keyword abstract: NUCLEAR REACTIONS 58 Ni(n,n), (n, γ), (n,X),E \leq 5 MeV; measured transmission,elastic,capture, $\sigma(\theta)$, σ . 59 Ni deduced resonance parameters E_n , Γ_n ,s-,d-wave resonance parameters. Enriched targets, 6 Li-glass,NE 110 detectors.

Keynumber: 1986MAYZ

Reference: Proc.Intern.Nuclear Physics Conference, Harrogate, U.K., p.341 (1986)

Authors: J.P.Mason

Title: Gamma-Ray Spectra following Resonance Neutron Capture in 58 Ni and 60 Ni

Keyword abstract: NUCLEAR REACTIONS 58 , 60 Ni(n, γ),E \approx resonance; measured capture γ -spectra. 59 , 60 Ni levels deduced relative transition strengths. Valence model.

Keynumber: 1986LO12

Reference: Radiat.Eff. 95, 199 (1986)

Authors: G.Longo, F.Fabbri

Title: Production of High-Energy Photons in Fast Neutron Radiative Capture

Keyword abstract: NUCLEAR REACTIONS 48 Ti, 58 Ni,Ni(n, γ),E=4-20 MeV; calculated $\sigma(E_n)$, $\sigma(E\gamma,\theta\gamma)$. Direct-semidirect model.

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 , 64 Ni(n,n), (n,n'), (n, γ), (n,2n), (n,3n), (n,p), (n, α), (n,n'p), (n,n' α),E <20 MeV; calculated $\sigma(E)$; deduced average capture $\sigma(E)$. Spherical optical,statistical models.

Keynumber: 1984WI02

Reference: Nucl.Sci.Eng. 86, 168 (1984)

Authors: K.Wisshak, F.Kappeler, G.Reffo, F.Fabbri

Title: Neutron Capture in s-Wave Resonances of Iron-56,Nickel-58, and Nickel-60

Keyword abstract: NUCLEAR REACTIONS 58 Ni(n, γ),E=10-30 keV; 60 Ni(n, γ),E=10-20 keV; 20-44 keV; measured capture $\sigma(E)$. 56 Fe(n, γ),E=27.7 keV; measured capture σ . 59 , 61 Ni, 57 Fe deduced s-wave resonance capture $\Gamma\gamma$. Kinetically collimated neutron beam.

Keynumber: 1984REZT

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.1, p.157 (1984)

Authors: G.Reffo, F.Fabbri

Title: Role of E1 and M1 Transitions in the γ -Decay following the Neutron Capture in $^{58,60}\text{Ni}$ and ^{56}Fe

Keyword abstract: NUCLEAR STRUCTURE ^{57}Fe , $^{59,61}\text{Ni}$; calculated resonances, $\Gamma\gamma, \Gamma_n$, average E1, M1 $\Gamma\gamma$. Axel-Brink model.

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , $^{58,60}\text{Ni}(n,\gamma)$, $E \approx 15$ keV; calculated total γ -spectra; deduced E1, M1 transitions contributions.

Keynumber: 1983WIZL

Reference: NEANDC(E)-242U, Vol.V, p.3 (1983)

Authors: K.Wisshak, F.Kappeler, G.Reffo, F.Fabbri

Title: Neutron Capture in s-Wave Resonances of ^{56}Fe , ^{58}Ni , ^{60}Ni

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , $^{58,60}\text{Ni}(n,\gamma)$, E =resonance; measured capture γ -spectra. ^{57}Fe , $^{59,61}\text{Ni}$ deduced s-wave resonance capture $\Gamma\gamma$.

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 $^{20,21,22}\text{Ne}$, ^{23}Na , $^{24,25,26}\text{Mg}$, ^{27}Al , $^{28,29,30}\text{Si}$, ^{31}P , $^{32,33,34,36}\text{S}$, $^{35,37}\text{Cl}$, $^{36,38,40}\text{Ar}$, $^{39,40,41}\text{K}$, $^{40,42,43,44,46,48}\text{Ca}$, ^{45}Sc , $^{46,47,48,49,50}\text{Ti}$, $^{50,51}\text{V}$, $^{50,52,53,54}\text{Cr}$, ^{55}Mn , $^{54,56,57,58}\text{Fe}$, ^{59}Co , $^{58,60,61,62,64}\text{Ni}$, $^{63,65}\text{Cu}$, $^{64,66,67}\text{Zn}(n,\gamma)$, (n,p) , (n,α) , (p,γ) , (p,n) , (p,α) , (α,γ) , (α,n) , (α,p) , $^{70}\text{Zn}(p,\gamma)$, (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 $^{22,23}\text{Na}$, $^{24,25,26}\text{Mg}$, ^{27}Al , $^{28,29,30}\text{Si}$, ^{31}P , $^{32,33,34}\text{S}$, $^{35,36,37}\text{Cl}$, $^{36,38,40}\text{Ar}$, $^{39,40,41}\text{K}$, $^{40,42,43,44,46,48}\text{Ca}$, $^{45,46}\text{Sc}$, $^{46,47,48,49,50}\text{Ti}$, $^{50,51}\text{V}$, $^{50,52,53,54}\text{Cr}$, $^{54,56,57,58}\text{Fe}$, ^{59}Co , $^{58,59,60,61,62,64}\text{Ni}$, $^{63,65}\text{Cu}$, $^{64,66,67,68,70}\text{Zn}$, $^{69,71}\text{Ga}(n,\gamma)$, (n,n) , (n,α) , E =thermal; evaluated σ , radiative capture resonance integrals.

Keynumber: 1980LI08

Reference: Nucl.Phys. A339, 205 (1980)

Authors: A.Lindholm, L.Nilsson, M.Ahmad, M.Anwar, I.Bergqvist, S.Joly

Title: Direct-Semidirect and Compound Contributions to Radiative Neutron Capture Cross Sections

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , ^{58}Ni , ^{89}Y , $^{206}\text{Pb}(n,\gamma)$, $E=0.5-11$ MeV; measured $E\gamma, I\gamma$. ^{41}Ca , ^{59}Ni , ^{90}Y , ^{207}Pb levels deduced production $\sigma(E)$. Compound nucleus, direct-semidirect model analysis.

Keynumber: 1978BE04

Reference: Z.Phys. A284, 173 (1978)

Authors: H.Beer, R.R.Spencer, F.Kappeler

Title: Measurement of Partial Radiation Widths of High Energy Transitions from keV Capture

Resonances in ^{56}Fe and $^{58}, ^{60}\text{Ni}$

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , $^{58}, ^{60}\text{Ni}(n,\gamma)$, $E=7-70$ keV; measured $\sigma(E\gamma)$. ^{57}Fe , $^{59}, ^{61}\text{Ni}$ deduced resonances, partial radiation Γ , M1 strength.

Keynumber: 1977IS01

Reference: Z.Phys. A281, 365 (1977)

Authors: A.F.M.Ishaq, A.Robertson, W.V.Prestwich, T.J.Kennett

Title: Thermal Neutron Capture in Isotopes of Nickel

Keyword abstract: NUCLEAR REACTIONS $^{58}, ^{60}, ^{62}, ^{64}\text{Ni}(n,\gamma)$, $E=\text{th}$; measured $E\gamma, I\gamma$. $^{59}, ^{61}, ^{63}, ^{65}\text{Ni}$ deduced levels.

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 ^{59}Ni and ^{63}Ni

Keyword abstract: NUCLEAR REACTIONS $^{58}, ^{59}, ^{60}, ^{61}, ^{63}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$. $^{59}, ^{60}, ^{61}, ^{62}, ^{64}\text{Ni}$ deduced levels, binding energies.

Keynumber: 1975HOYT

Reference: Proc.Int.Symp.Neutron Capture Gamma-Ray Spectroscopy and Related Topics, 2nd, Petten, p.537 (1975)

Authors: C.Hofmeyr

Title: Thermal Neutron Capture in ^{58}Ni

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$. ^{59}Ni deduced levels, γ -branching, J, π .

Keynumber: 1975FRZV

Coden: JOUR BAPSA 20 174 IB21

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , $^{58}, ^{60}, ^{61}\text{Ni}(n,\gamma)$; calculated σ .

Keynumber: 1975BEYM

Coden: CONF Petten(Neutron Capture γ -ray Spect), Proc P285

Keyword abstract: NUCLEAR REACTIONS $^{58}, ^{60}\text{Ni}(n,\gamma)$, $E=7-70$ keV; measured $\sigma(E, E\gamma)$. $^{59}, ^{61}\text{Ni}$ deduced resonances.

Keynumber: 1974HOZC

Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy), P319

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma$. ^{59}Ni deduced levels.

Keynumber: 1974BEYD

Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy), P53

Keyword abstract: NUCLEAR REACTIONS $^{58}, ^{60}\text{Ni}(n,\gamma)$, $E=7-70$ keV; measured $\sigma(E, E\gamma)$. $^{59}, ^{61}\text{Ni}$ resonances deduced J, π, γ -width.

Keynumber: 1973BO47

Reference: Nucl.Phys. A215, 605 (1973)

Authors: E.Boridy, C.Mahaux

Title: Radiative Capture of Low-Energy Neutrons in the Shell-Model Approach to Nuclear Reactions

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , $^{58}\text{Ni}(n,\gamma)$; calculated $I\gamma$. ^{57}Fe , ^{59}Ni resonances calculated level-width.

Keynumber: 1972ST06

Reference: Nucl.Phys. A181, 250 (1972)

Authors: F.Stecher-Rasmussen, J.Kopecky, K.Abrahams, W.Ratynski

Title: Circular Polarization of Neutron Capture γ -Rays from Mn, Ni, Ga and W

Keyword abstract: NUCLEAR REACTIONS ^{55}Mn , $^{58, 60, 62}\text{Ni}$, $^{69, 71}\text{Ga}$, $^{182, 183, 186}\text{W}$ (polarized n,γ), E =thermal; measured γ -CP. ^{56}Mn , $^{59, 61, 63}\text{Ni}$, $^{70, 72}\text{Ga}$, $^{183, 184, 187}\text{W}$ levels deduced J,π . Natural targets.

Keynumber: 1972AXZZ

Coden: REPT AERE-PR/NP 18,P4,8/16/72

Keyword abstract: NUCLEAR REACTIONS Ni, ^{58}Ni , $^{167}\text{Er}(n,\gamma)$, $E < 1$ MeV; Ni, ^{58}Ni , Fe, C, Tm, $^{166, 167, 170}\text{Er}(n,X)$, $E < 10$ keV; measured $\sigma(\text{nt})(E)$, $\sigma(E)$.

Keynumber: 1971GIZL

Reference: ZfK-215 (1971)

Authors: P.Gippner, H.-U.Jager, W.Rudolph

Title: Verleich von (d,p)- und (n, γ)-Reaktionen an den Nukliden ^{58}Ni , ^{60}Ni , ^{62}Ni und ^{64}Ni

Keyword abstract: NUCLEAR REACTIONS $^{58, 60, 62, 64}\text{Ni}(n,\gamma)$, E =thermal; measured $E\gamma, I\gamma$. $^{59, 61, 63, 65}\text{Ni}$ deduced levels.

Keynumber: 1971DI10

Reference: Phys.Lett. 35B, 467 (1971)

Authors: F.Dickmann

Title: Single-Particle Model for Strongly Deformed Nuclei

Keyword abstract: NUCLEAR REACTIONS $^{58}\text{Ni}(n,\gamma)$, E =thermal; calculated $I\gamma$. ^{59}Ni resonance deduced level-width.

Keynumber: 1971BIZV

Coden: REPT ORNL-TM-3379, J R Bird,9/14/71

Keyword abstract: NUCLEAR REACTIONS F, Na, Mg, Al, S, ^{35}Cl , K, Ca, $^{40, 42, 44}\text{Ca}$, Ti, V, Fe, $^{54, 56}\text{Fe}$, Ni, $^{58, 60}\text{Ni}$, ^{63}Cu , Zn(n,γ), $E=10-100$ keV; measured $E\gamma, I\gamma$. 9 in x 12 in NaI detector.

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: 1968BE37

Reference: Nucl.Phys. A120, 161 (1968)

Authors: I.Bergqvist, B.Lundberg, L.Nilsson, N.Starfelt

Title: Radiative Capture in Nickel and Bismuth of Neutrons in the MeV Region

Keyword abstract: NUCLEAR REACTIONS ^{58}Ni , $^{209}\text{Bi}(n,\gamma)$, $E_n=0.9-8.3$ MeV; measured $\sigma(E; E\gamma)$. Natural targets.

Keynumber: 1968AL18

Reference: Nucl.Phys. A122, 220 (1968)

Authors: B.J.Allen, M.J.Kenny, R.J.Sparks

Title: keV Neutron Capture in Nickel

Keyword abstract: NUCLEAR REACTIONS 58 , 60 , $^{62}\text{Ni}(n,\gamma)$, $E=10-90$ keV; measured $\sigma(E; E\gamma)$. 59 , 61 , ^{63}Ni deduced γ transition strengths. Ge(Li) detector, natural target.

Keynumber: 1967RA24

Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba Press, p.278(1967)

Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai

Title: Determination of (n,γ) Reaction Q Values from Capture γ -Ray Spectra

Keyword abstract: NUCLEAR REACTIONS ^6Li , ^7Li , ^9Be , ^{10}B , ^{12}C , ^{14}N , ^{19}F , ^{23}Na , ^{24}Mg , ^{25}Mg , ^{26}Mg , ^{27}Al , ^{28}Si , ^{31}P , ^{32}S , ^{35}Cl , ^{40}Ca , ^{45}Sc , ^{48}Ti , ^{51}V , ^{55}Mn , ^{54}Fe , ^{56}Fe , ^{59}Co , ^{58}Ni , ^{60}Ni , ^{63}Cu , ^{65}Cu , ^{66}Zn , ^{67}Zn , ^{73}Ge , ^{76}Se , ^{85}Rb , ^{87}Rb , ^{89}Y , ^{93}Nb , ^{103}Rh , ^{113}Cd , ^{123}Te , ^{133}Cs , ^{139}La , ^{141}Pr , ^{149}Sm , ^{153}Eu , ^{157}Gd , ^{159}Tb , ^{165}Ho , ^{167}Er , ^{169}Tm , ^{181}Ta , ^{182}W , ^{195}Pt , ^{197}Au , ^{199}Hg , ^{203}Tl , $^{207}\text{Pb}(n,\gamma)$, $E = \text{thermal}$; measured $E\gamma$; deduced Q. Natural targets.