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43 reference(s) found :

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=thermal; measured $E\gamma, I\gamma$; deduced capture σ .

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 $^{60, 58, 62}\text{Ni}$, $^{14}\text{N}(n,\gamma)$, E=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 $^{59, 61, 63, 64}\text{Ni}$ and ^{90}Y Obtained from Thermal Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS $^{58, 60, 62}\text{Ni}$, $^{89}\text{Y}(n,\gamma)$, E=thermal; measured capture γ spectra. $^{59, 61, 63, 64}\text{Ni}$, ^{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=thermal; measured $E\gamma, I\gamma$. $^{59, 61}\text{Ni}$ 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=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 , $^{61, 59}\text{Ni}$ levels deduced $T_{1/2}$. Molecular dynamics simulations.

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 , $^{62}\text{Ni}(n,\gamma)$, $E=\text{thermal}$; measured γ -spectra Doppler shifts, line shapes. ^{59}Ni levels deduced $T_{1/2}$, $B(\lambda)$. 61 , ^{63}Ni levels deduced $T_{1/2}$. GRID technique.

Keynumber: 1987HW02

Reference: Nucl.Sci.Eng. 96, 192 (1987)

Authors: R.N.Hwang

Title: A Rigorous Pole Representation of Multilevel Cross Sections and Its Practical Applications

Keyword abstract: NUCLEAR REACTIONS $^{60}\text{Ni}(n,n)$, (n,γ) , $E=174\text{--}190\text{ KeV}$; calculated capture, scattering σ . $^{239}\text{Pu}(n,n)$, (n,f) , $E=1\text{--}600\text{ eV}$; calculated scattering, capture, fission σ ; deduced model parameters. Pole representation.

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 , $^{60}\text{Ni}(n,\gamma)$, $E \approx \text{resonance}$; measured capture γ -spectra. 59 , ^{60}Ni levels deduced relative transition strengths. Valence 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 , $^{64}\text{Ni}(n,n)$, (n,n') , (n,γ) , $(n,2n)$, $(n,3n)$, (n,p) , (n,α) , $(n,n'p)$, $(n,n'\alpha)$, $E < 20\text{ MeV}$; calculated $\sigma(E)$; deduced average capture $\sigma(E)$. Spherical optical, statistical models.

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}Ni ; calculated resonances, $\Gamma\gamma$, Γn , average E1, M1 $\Gamma\gamma$. Axel-Brink model.

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe , 58 , $^{60}\text{Ni}(n,\gamma)$, $E \approx 15\text{ keV}$; 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 , $^{60}\text{Ni}(n,\gamma)$, $E=\text{resonance}$; measured capture γ -spectra. ^{57}Fe , 59 , ^{61}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) , $E = \text{low}$; 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 $^{22, 23}\text{Na}$, Mg , $^{24, 25, 26}\text{Mg}$, ^{27}Al , Si , $^{28, 29, 30}\text{Si}$, ^{31}P , S , $^{32, 33, 34}\text{S}$, Cl , $^{35, 36, 37}\text{Cl}$, Ar , $^{36, 38, 40}\text{Ar}$, K , $^{39, 40, 41}\text{K}$, Ca , $^{40, 42, 43, 44, 46, 48}\text{Ca}$, $^{45, 46}\text{Sc}$, Ti , $^{46, 47, 48, 49, 50}\text{Ti}$, V , $^{50, 51}\text{V}$, Cr , $^{50, 52, 53, 54}\text{Cr}$, Fe , $^{54, 56, 57, 58}\text{Fe}$, ^{59}Co , Ni , $^{58, 59, 60, 61, 62, 64}\text{Ni}$, Cu , $^{63, 65}\text{Cu}$, Zn , $^{64, 66, 67, 68, 70}\text{Zn}$, Ga , $^{69, 71}\text{Ga}(n, \gamma)$, (n, n) , (n, α) , $E = \text{thermal}$; evaluated σ , radiative capture resonance integrals.

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

Keynumber: 1974LU04

Reference: Nucl.Phys. A230, 83 (1974)

Authors: M.Lubert, N.C.Francis, R.C.Block

Title: Correlations between Reduced Neutron and Radiative Widths in Neutron Resonances

Keyword abstract: NUCLEAR REACTIONS $^{61}\text{Ni}, ^{57}\text{Fe}, ^{53}\text{Cr}(\gamma, n), ^{60}\text{Ni}, ^{56}\text{Fe}, ^{52}\text{Cr}(n, \gamma), E=\text{thermal}$; calculated σ . $^{61}\text{Ni}, ^{57}\text{Fe}, ^{53}\text{Cr}$ resonances deduced γ -width.

Keynumber: 1974BRYX

Coden: THESIS DABBB 34B 6150

Keyword abstract: NUCLEAR REACTIONS $^{60}\text{Ni}, \text{Fe}(n, \gamma), E=\text{thermal to low keV}$; measured $\sigma(E, E\gamma)$.

Keynumber: 1974BR39

Reference: Nucl.Phys. A236, 45 (1974)

Authors: P.H.Brown, R.C.Block, J.R.Tatarczuk

Title: An Experimental Study of Neutron Radiative Capture in ^{60}Ni and Fe in the Thermal to Low keV Range

Keyword abstract: NUCLEAR REACTIONS $\text{Fe}, ^{60}\text{Ni}(n, \gamma), E=\text{thermal-17 keV}$; measured $\sigma(E, E\gamma)$. $^{61}\text{Ni}, ^{57}\text{Fe}$ deduced transitions. ^{61}Ni resonance deduced J. Enriched ^{60}Ni , natural Fe target.

Keynumber: 1974BEYD

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

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

Keynumber: 1973LUZI

Coden: REPT COO-3058-39 P34 mf

Keyword abstract: NUCLEAR REACTIONS $^{52}\text{Cr}, ^{60}\text{Ni}(n, \gamma), E=\text{thermal}$; calculated σ . $^{53}\text{Cr}, ^{61}\text{Ni}$ resonances deduced γ -width.

Keynumber: 1973BRZL

Coden: REPT COO-3058-34 P4 (CRL)

Keyword abstract: NUCLEAR REACTIONS $^{60}\text{Ni}(n, \gamma), E=70 \text{ MeV}$; measured $E\gamma, I\gamma$. ^{61}Ni deduced levels.

Keynumber: 1973BRWS

Coden: REPT USNDC-7 P203

Keyword abstract: NUCLEAR REACTIONS $^{60}\text{Ni}(n, \gamma)$; measured $\sigma(E\gamma)$. ^{61}Ni levels deduced transitions.

Keynumber: 1973BRWK

Coden: REPT COO-3058-39 P20 mf

Keyword abstract: NUCLEAR REACTIONS $^{60}\text{Ni}, \text{Fe}(n, \gamma)$; measured $\sigma(E, E\gamma)$.

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: 1972KOZJ

Coden: CONF Budapest,Contributions,P234,J Kopecky,10/13/72

Keyword abstract: NUCLEAR REACTIONS $^{50, 52}\text{Cr}$, ^{54}Fe , $^{60, 62}\text{Ni}$ (n, γ); measured γ -CP. $^{51, 53}\text{Cr}$, ^{55}Fe , $^{61, 63}\text{Ni}$ levels deduced L(n),J.

Keynumber: 1972KO15

Reference: Nucl.Phys. A188, 535 (1972)

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

Title: Study of the (n, γ) Reaction in the Mass Region A = 50 - 63

Keyword abstract: NUCLEAR REACTIONS ^{50}Cr , ^{52}Cr , ^{54}Fe , ^{60}Ni , ^{62}Ni (polarized n, γ);E= thermal; measured E γ ,I γ , γ -CP; deduced Q. ^{51}Cr , ^{53}Cr , ^{55}Fe , ^{61}Ni , ^{63}Ni levels deduced J. Enriched targets.

Keynumber: 1971STZR

Coden: REPT RPI-328-218,P33,9/10/71

Keyword abstract: NUCLEAR REACTIONS $^{50, 52, 53, 54}\text{Cr}$, ^{60}Ni ,V(n, γ),E <200 keV; measured σ (E γ). $^{51, 53, 54, 55}\text{Cr}$, ^{61}Ni , ^{52}V deduced resonance parameters.

Keynumber: 1971ST07

Reference: Nucl.Phys. A163, 592 (1971)

Authors: R.G.Stieglitz, R.W.Hockenbury, R.C.Block

Title: keV Neutron Capture and Transmission Measurements on ^{50}Cr , ^{52}Cr , ^{53}Cr , ^{54}Cr , ^{60}Ni and V

Keyword abstract: NUCLEAR REACTIONS V, ^{50}Cr , ^{52}Cr , ^{53}Cr , ^{54}Cr , ^{60}Ni (n, γ),En=0.1 to 200 keV,, (n,t),En=0.1 to 350 keV; measured capture yield, transmission versus En; deduced σ (n γ), σ (nT),n-width,level spacing, R'. $^{51, 53, 54, 55}\text{Cr}$, ^{61}Ni deduced resonances J,L,n-width, γ -width,A γ . Enriched targets.

Keynumber: 1971KOZI

Coden: JOUR NTNAA 37 396,J Kopecky

Keyword abstract: NUCLEAR REACTIONS $^{50, 52}\text{Cr}$, $^{54, 57}\text{Fe}$, $^{60, 62}\text{Ni}$ (n, γ),E=thermal; measured γ -CP,Q,E γ ,I γ . $^{51, 53}\text{Cr}$, $^{55, 58}\text{Fe}$, $^{61, 63}\text{Ni}$ deduced levels,J, π .

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, γ),E=thermal; measured E γ ,I γ . $^{59, 61, 63, 65}\text{Ni}$ deduced levels.

Keynumber: 1971BLZS

Coden: CONF CONF-710301(Knoxville),Vol2,P889,11/2/71

Keyword abstract: NUCLEAR REACTIONS $^{50, 52, 53, 54}\text{Cr}$,V, ^{60}Ni (n, γ),E=resonance; analyzed

available data. ⁵¹, ⁵³, ⁵⁴, ⁵⁵Cr, ⁵²V, ⁶¹Ni deduced resonance parameters.

Keynumber: 1971BIZV

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

Keyword abstract: NUCLEAR REACTIONS F,Na,Mg,Al,S, ³⁵Cl,K,Ca, ⁴⁰, ⁴², ⁴⁴Ca,Ti,V,Fe, ⁵⁴, ⁵⁶Fe,Ni, ⁵⁸, ⁶⁰Ni, ⁶³Cu,Zn(n,γ),E=10-100 keV; measured Eγ,Iγ. 9 inx 12 in NaI detector.

Keynumber: 1970STZY

Coden: THESIS R G Stieglitz, RPI, DABBB 31B 6822

Keyword abstract: NUCLEAR REACTIONS V, ⁶⁰Ni, ⁵⁰, ⁵², ⁵³, ⁵⁴Cr(n,X), (n,γ),E <300 keV; measured transmission,σ(E;Eγ). ⁶¹Ni, ⁵¹, ⁵³, ⁵⁴, ⁵⁵Cr deduced resonance parameters.

Keynumber: 1970GAZQ

Reference: Thesis, Univ.Paris (1970); FRNC-TH-37 (1970)

Authors: J.-J.Gardien

Title: Spectroscopie de Paires et Anti-Compton sur les Isotopes ⁶⁰Ni(n,γ)⁶¹Ni et ⁶²Ni(n,γ)⁶³Ni

Keyword abstract: NUCLEAR REACTIONS ⁶⁰, ⁶²Ni(n,γ),E=thermal; measured Eγ,Iγ. ⁶¹, ⁶³Ni deduced levels,J,π.

Keynumber: 1970GAZN

Coden: REPT FRNC-TH-37,10/30/72

Keyword abstract: NUCLEAR REACTIONS ⁶⁰, ⁶²Ni(n,γ),E=thermal; measured Eγ,Iγ,γγ-coin. ⁶¹, ⁶³Ni deduced levels,J,π.

Keynumber: 1970BLZS

Coden: REPT RPI-328-222, R C Block,10/13/71

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵², ⁵³, ⁵⁴Cr,V, ⁶⁰Ni(n,X), (n,γ),E=resonance; measured σ(E),σ(E,Eγ). ⁵¹, ⁵³, ⁵⁴, ⁵⁵Cr deduced resonances,level-width.

Keynumber: 1969KE15

Reference: Yadern.Fiz. 10, 907 (1969); Soviet J.Nucl.Phys. 10, 524 (1970)

Authors: J.Kecskemeti, D.Kiss

Title: Measurement of Average Multiplicity in (n,γ) Reactions Induced by Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS ²³Na, ²⁷Al, ³¹P, ³²S, ³⁵Cl, ⁴⁸Ti, ⁵¹V, ⁵³Cr, ⁵²Cr, ⁵⁵Mn, ⁵⁶Fe, ⁵⁹Co, ⁶⁰Ni,Ni,Cu, ⁶³Cu, Ge, ⁷³Ge, ⁷⁵As,Se,Br, Sr, Zr, ⁹³Nb,Mo, ¹⁰³Rh,Ag(n,γ) E=thermal; measured average γ multiplicity.

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 ²³Na, ²⁷Al, ⁵⁴, ⁵⁶, ⁵⁷, ⁵⁸Fe, ⁵⁸, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni(n,γ), E=0.1-200 keV; measured σ(E). ²⁴Na, ²⁸Al, ⁵⁵, ⁵⁷, ⁵⁸, ⁵⁹Fe, ⁵⁹, ⁶¹, ⁶², ⁶³, ⁶⁵Ni deduced resonance parameters.

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 $^{58}, ^{60}, ^{62}\text{Ni}(n,\gamma)$, $E=10\text{-}90\text{ keV}$; measured $\sigma(E; E\gamma)$. $^{59}, ^{61}, ^{63}\text{Ni}$ 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 $^6\text{Li}, ^7\text{Li}, ^9\text{Be}, ^{10}\text{B}, ^{12}\text{C}, ^{14}\text{N}, ^{19}\text{F}, ^{23}\text{Na}, ^{24}\text{Mg}, ^{25}\text{Mg}, ^{26}\text{Mg}, ^{27}\text{Al}, ^{28}\text{Si}, ^{31}\text{P}, ^{32}\text{S}, ^{35}\text{Cl}, ^{40}\text{Ca}, ^{45}\text{Sc}, ^{48}\text{Ti}, ^{51}\text{V}, ^{55}\text{Mn}, ^{54}\text{Fe}, ^{56}\text{Fe}, ^{59}\text{Co}, ^{58}\text{Ni}, ^{60}\text{Ni}, ^{63}\text{Cu}, ^{65}\text{Cu}, ^{66}\text{Zn}, ^{67}\text{Zn}, ^{73}\text{Ge}, ^{76}\text{Se}, ^{85}\text{Rb}, ^{87}\text{Rb}, ^{89}\text{Y}, ^{93}\text{Nb}, ^{103}\text{Rh}, ^{113}\text{Cd}, ^{123}\text{Te}, ^{133}\text{Cs}, ^{139}\text{La}, ^{141}\text{Pr}, ^{149}\text{Sm}, ^{153}\text{Eu}, ^{157}\text{Gd}, ^{159}\text{Tb}, ^{165}\text{Ho}, ^{167}\text{Er}, ^{169}\text{Tm}, ^{181}\text{Ta}, ^{182}\text{W}, ^{195}\text{Pt}, ^{197}\text{Au}, ^{199}\text{Hg}, ^{203}\text{Tl}, ^{207}\text{Pb}(n,\gamma)$, $E = \text{thermal}$; measured $E\gamma$; deduced Q. Natural targets.
