

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

17 reference(s) found :

Keynumber: 1999ZHXM

Reference: INDC(CPR)-049/L, p.76 (1999)

Authors: C.Zhou

Title: Prompt γ -Ray Data Evaluation of Thermal-Neutron Capture for $A = 1 \text{ \textasciitilde } 25$

Keyword abstract: NUCLEAR REACTIONS $^1, ^2\text{H}$, $^6, ^7\text{Li}$, ^9Be , $^{12}, ^{13}\text{C}$, ^{14}N , $^{16}, ^{17}\text{O}$, ^{19}F , $^{20}, ^{21}, ^{22}\text{Ne}$, ^{23}Na , $^{24}, ^{25}\text{Mg}(n,\gamma)$, $E=\text{thermal}$; compiled, evaluated prompt γ -ray data.

Keynumber: 1994KI09

Reference: Nucl.Phys. A575, 72 (1994)

Authors: H.Kitazawa, M.Igashira, S.Shibata, K.Tanaka, H.Takakuwa, K.Masuda

Title: Retardation of Single-Particle E1 Transitions from the 622 keV Broad d-Wave Neutron Resonance in ^9Be

Keyword abstract: NUCLEAR REACTIONS $^9\text{Be}(n,\gamma)$, $E=622$ keV; measured $\sigma(E,E\gamma)$ at $\theta=125^\circ$. ^{10}Be deduced resonance, $\Gamma\gamma$. Natural target. Valence-capture model.

Keynumber: 1988RA10

Reference: J.Phys.(London) G14, Supplement S223 (1988)

Authors: S.Raman, S.Kahane, J.E.Lynn

Title: Direct Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^9Be , $^{12}, ^{13}\text{C}$, $^{24}, ^{25}, ^{26}\text{Mg}$, $^{32}, ^{34}, ^{33}\text{S}$, $^{40}, ^{44}\text{Ca}$ (n,γ) , $E=\text{slow}$; calculated capture σ .

Keynumber: 1988MU05

Reference: J.Phys.(London) G14, Supplement S231 (1988)

Authors: S.F.Mughabghab

Title: Spin-Spin and Isospin Interactions from Capture Measurements

Keyword abstract: NUCLEAR REACTIONS $^9\text{Be}(n,\gamma)$, E not given; analyzed σ ; deduced spin-spin potential parameter.

Keynumber: 1987LYZY

Reference: ORNL-6326, p.62 (1987)

Authors: J.E.Lynn, S.Kahane, S.Raman

Title: Analysis of Slow Neutron Capture by ^9Be , ^{12}C , and ^{13}C

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}$, $^9\text{Be}(n,\gamma)$, $E=\text{slow}$; analyzed data; deduced model parameters, capture mechanism.

Keynumber: [1987LY01](#)

Reference: Phys.Rev. C35, 26 (1987)

Authors: J.E.Lynn, S.Kahane, S.Raman

Title: Analysis of Slow Neutron Capture by ^9Be , ^{12}C , and ^{13}C

Keyword abstract: NUCLEAR REACTIONS ^9Be , $^{12}, ^{13}\text{C}(n,\gamma)$, $E=\text{thermal}$; calculated capture σ . Optical model, Lane-Lynn-Raman method.

Keynumber: 1986KE14

Reference: Nucl.Instrum.Methods Phys.Res. A249, 366 (1986)

Authors: T.J.Kennett, W.V.Prestwich, J.S.Tsai

Title: The $^{14}\text{N}(n,\gamma)^{15}\text{N}$ Reaction as both an Intensity and Energy Standard

Keyword abstract: NUCLEAR REACTIONS ^{14}N , ^9Be , $^{12}\text{C}(n,\gamma)$, E=reactor; measured γ -spectra following capture. ^{15}N levels deduced input,output $I\gamma$, weighted difference. ^{10}Be levels deduced $I\gamma$. Ge detector surrounded by quadrisected NaI(Tl) annulus.

Keynumber: 1986GO14

Reference: Radiat.Eff. 92, 139 (1986)

Authors: C.R.Gould, J.Dave, G.E.Mitchell, P.Ramakrishnan, G.F.Auchampaugh, R.C.Little, S.A.Wender

Title: Photon Production Cross Section Measurements for Ta and Be

Keyword abstract: NUCLEAR REACTIONS Ta, $^9\text{Be}(n,\gamma)$, E=2-25 MeV; measured γ -ray production σ .

Keynumber: 1986CO14

Reference: Nucl.Instrum.Methods Phys.Res. A248, 416 (1986)

Authors: C.M.Conneely, W.V.Prestwich, T.J.Kennett

Title: The Thermal Neutron Capture Cross Section of ^9Be

Keyword abstract: NUCLEAR REACTIONS $^9\text{Be}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$; deduced capture σ relative to $^{14}\text{N}(n,\gamma)$. Pair spectrometer, NaI(Tl), Ge detectors.

Keynumber: 1985MU03

Reference: Phys.Rev.Lett. 54, 986 (1985)

Authors: S.F.Mughabghab

Title: Evidence for a Nucleon-Nucleus Spin-Spin Interaction in ^9Be

Keyword abstract: NUCLEAR REACTIONS $^9\text{Be}(n,\gamma)$, E=thermal; analyzed E1 transitions following capture; deduced spin-spin potential parameters. ^{10}Be levels deduced spectroscopic amplitudes, phases. Direct capture model.

Keynumber: 1983KE11

Reference: Nucl.Instrum.Methods 215, 159 (1983)

Authors: T.J.Kennett, W.V.Prestwich, R.J.Tervo, J.S.Tsai

Title: Evaluation of a Method for the Determination of Accurate Transition Energies in the (n, γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^9Be , ^{14}N , 28 , $^{29}\text{Si}(n,\gamma)$, E=0.5-11 MeV; measured $E\gamma, I\gamma$. ^{10}Be , 29 , ^{30}Si , ^{15}N deduced neutron separation energy, level energies. High fidelity pulse height to energy transformation.

Keynumber: 1980IS02

Reference: Can.J.Phys. 58, 168 (1980)

Authors: M.A.Islam, T.J.Kennett, S.A.Kerr, W.V.Prestwich

Title: A Self-Consistent Set of Neutron Separation Energies

Keyword abstract: NUCLEAR REACTIONS ^1H , ^9Be , ^{14}N , 24 , ^{25}Mg , ^{27}Al , 28 , ^{29}Si , ^{32}S , ^{35}Cl , 40 , ^{44}Ca , 47 , 48 , ^{49}Ti , 50 , 52 , ^{53}Cr , ^{55}Mn , 54 , 56 , $^{57}\text{Fe}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. ^2H , ^{10}Be , 25 , ^{26}Mg , ^{28}Al , 29 , ^{30}Si , ^{33}S , ^{36}Cl , 41 , ^{45}Ca , 48 , 49 , ^{50}Ti , 51 , 53 , ^{54}Cr , ^{56}Mn , 55 , 57 , ^{58}Fe deduced Q, neutron binding energy.

Keynumber: 1974JUZW

Reference: USNDC-11, p.149 (1974)

Authors: E.T.Jurney

Title: Weak Gamma Transitions from ${}^9\text{Be}(n,\gamma){}^{10}\text{Be}$ and Radiative Capture of Thermal Neutrons by ${}^9\text{Be}$

Keyword abstract: NUCLEAR REACTIONS ${}^9\text{Be}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma$; deduced σ . ${}^{10}\text{Be}$ deduced transitions.

Keynumber: 1969WE10

Reference: Phys.Rev. 186, 1292 (1969)

Authors: K.J.Wetzel

Title: Absence of Recoil Doppler Broadening of the 3367-keV Transition Following the Reaction ${}^9\text{Be}(n,\gamma){}^{10}\text{Be}$

Keyword abstract: NUCLEAR REACTIONS ${}^9\text{Be}(n,\gamma), E = \text{thermal}$; measured $\sigma(E\gamma)$. ${}^{10}\text{Be}$ transition deduced no Doppler broadening.

Keynumber: 1968GRZY

Reference: Proc.Conf.Slow-Neutron-Capture Gamma-Ray Spectr., Argonne, Ill. (1966), F.E.Throw, Ed., ANL-7282, p.303 (1968)

Authors: R.C.Greenwood

Title: Precise Measurements of Primary Capture Gamma-Ray Energies Using a 'Bootstrap' Method

Keyword abstract: NUCLEAR REACTIONS ${}^9\text{Be}, {}^{14}\text{N}, {}^{23}\text{Na}(n,\gamma), E = \text{thermal}$; measured $E\gamma$; deduced Q. Ge(Li) detector.

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.

Keynumber: 1967OR03

Reference: AD-649805 (1967)

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

Title: Study of Thermal Neutron Capture Gamma Rays Using a Lithium-Drifted Germanium Spectrometer

Keyword abstract: NUCLEAR REACTIONS ${}^9\text{Be}, {}^{45}\text{Sc}, \text{Fe}, \text{Ge}, \text{Zr}(n,\gamma), E = \text{thermal}$; measured $E\gamma, I\gamma$; deduced Q. ${}^{10}\text{Be}, {}^{46}\text{Sc}, {}^{55}\text{Fe}, {}^{57}\text{Fe}, {}^{71}\text{Ge}, {}^{73}\text{Ge}, {}^{74}\text{Ge}, {}^{91}\text{Zr}, {}^{92}\text{Zr}, {}^{93}\text{Zr}, {}^{95}\text{Zr}$ deduced transitions. Ge(Li) detectors.