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49 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 $A = 1$ to 25

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

Keynumber: 1999OH04

Reference: Nucl.Instrum.Methods Phys.Res. A425, 302 (1999)

Authors: T.Ohsaki, Y.Nagai, M.Igashira, T.Shima, T.S.Suzuki, T.Kikuchi, T.Kobayashi, T.Takaoka, M.Kinoshita, Y.Nobuhara

Title: An NaI(Tl) Spectrometer System for keV Neutron Radiative-Capture Reactions

Keyword abstract: NUCLEAR REACTIONS ^{12}C (n, γ),E \approx 42 keV; measured capture σ (E).

Keynumber: 1999MEZW

Reference: INDC(NDS)-412, p.184 (1999)

Authors: A.Mengoni, K.Shibata, J.Kopecky

Title: Evaluations of Radiative Capture on C, O, and Li

Keyword abstract: NUCLEAR REACTIONS ^{12}C (n, γ),E <0.8 MeV; ^7Li , ^{13}C (n, γ),E <1 MeV; ^{16}O (n, γ),E <500 keV; analyzed capture σ ; deduced parameters.

Keynumber: [1998KI09](#)

Reference: Phys.Rev. C57, 2724 (1998)

Authors: T.Kikuchi, Y.Nagai, T.S.Suzuki, T.Shima, T.Kii, M.Igashira, A.Mengoni, T.Otsuka

Title: Nonresonant Direct p- and d-Wave Neutron Capture by ^{12}C

Keyword abstract: NUCLEAR REACTIONS ^{12}C (n, γ),E=550 keV; measured E_γ , I_γ ; deduced partial capture σ . ^{13}C level deduced spectroscopic factor. Direct radiative capture calculations.

Keynumber: [1998KI01](#)

Reference: Phys.Rev. C57, 202 (1998)

Authors: H.Kitazawa, K.Go, M.Igashira

Title: Low-Energy Neutron Direct Capture by ^{12}C in a Dispersive Optical Potential

Keyword abstract: NUCLEAR REACTIONS ^{12}C (n, γ),E <1 MeV; calculated σ ; deduced optical potential features.

Keynumber: 1997LI10

Reference: Nucl.Phys. A619, 49 (1997)

Authors: A.Likar, T.Vidmar

Title: Direct Neutron Capture in Light Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{12}C , ^{16}O (n, γ),E <600 keV; calculated σ (En); deduced influence of scattering potential depth. Consistent direct-semidirect model.

Keynumber: [1997DU09](#)

Reference: Phys.Rev. C56, 1831 (1997)

Authors: M.Dufour, P.Descouvemont

Title: Multicuster Study of the $^{12}\text{C} + n$ and $^{12}\text{C} + p$ Systems

Keyword abstract: NUCLEAR STRUCTURE ^{12}C ; calculated binding energy, 2^+ state excitation energy, charge radius, $B(E2)$ vs cluster-model parameter $R(c)$; ^{13}C , ^{13}N ; calculated levels, $B(\lambda)$, rms radius vs $R(c)$. Multicuster approach.

Keyword abstract: NUCLEAR REACTIONS, ICPND $^{12}\text{C}(n,\gamma), E(\text{cm}) \leq 0.5 \text{ MeV}$; $^{12}\text{C}(p,\gamma), E(\text{cm}) \leq 0.6 \text{ MeV}$; calculated capture $\sigma(E)$.

Keynumber: 1996RE16

Reference: Acta Phys.Pol. B27, 231 (1996)

Authors: H.Rebel

Title: Coulomb Dissociation Experiments of Astrophysical Significance

Keyword abstract: NUCLEAR REACTIONS ^3He , ^7Be , $^6, ^7\text{Li}$, $^{12}, ^{14}\text{C}$, $^{16}, ^{15}\text{O}$, $^{14}\text{N}(\alpha,\gamma)$, $^9, ^7\text{Be}$, ^6Li , $^{10}, ^{11}\text{B}$, $^{11}, ^{12}\text{C}$, ^{16}O , ^{13}N , ^{20}Ne , $^{31}\text{S}(p,\gamma)$, $^4\text{He}(d,\gamma)$, (t,γ) , $^{12}, ^{14}\text{C}(n,\gamma)$, E not given; compiled, reviewed capture reactions accessible to fast projectile Coulomb dissociation studies.

Keynumber: 1996NA27

Reference: Hyperfine Interactions 103, 43 (1996)

Authors: Y.Nagai, T.Shima, T.S.Suzuki, H.Sato, T.Kikuchi, T.Kii, M.Igashira, T.Ohsaki

Title: Fast Neutron Capture Reactions in Nuclear Astrophysics

Keyword abstract: NUCLEAR REACTIONS ^1H , ^{12}C , $^{16}\text{O}(n,\gamma)$, $E=10\text{-}300 \text{ keV}$; measured $E\gamma, I\gamma$, capture σ at some neutron energies. Implications for primordial and stellar nucleosynthesis.

Keynumber: 1995OTZY

Reference: RIKEN-94, p.12 (1995)

Authors: T.Otsuka, M.Ishihara, N.Fukunishi, T.Nakamura, M.Yokoyama

Title: Neutron Halo Effects in Direct Neutron Capture and Photodisintegration

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, E not given; calculated $\sigma(\text{capture})$; deduced neutron halo. Direct capture.

Keynumber: [1995ME14](#)

Reference: Phys.Rev. C52, R2334 (1995)

Authors: A.Mengoni, T.Otsuka, M.Ishihara

Title: Direct Radiative Capture of p-Wave Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E \leq 500 \text{ keV}$; calculated capture $\sigma(E)$. Direct capture model.

Keynumber: 1995LI31

Reference: Nucl.Phys. A591, 458 (1995)

Authors: A.Likar, T.Vidmar

Title: Fast Neutron Capture Through a Consistent Version of the Direct-Semidirect Model

Keyword abstract: NUCLEAR REACTIONS ^{208}Pb , $^{12}\text{C}(n,\gamma)$, $E \approx 6\text{-}20 \text{ MeV}$; $^{40}\text{Ca}(n,\gamma)$, $E \approx 5\text{-}45 \text{ MeV}$; ^{140}Ce , $^{89}\text{Y}(n,\gamma)$, $E \approx 1\text{-}20 \text{ MeV}$; calculated capture $\sigma(\theta)$ vs E . Direct-semidirect model, new version.

Keynumber: [1994OT04](#)

Reference: Phys.Rev. C49, R2289 (1994)

Authors: T.Otsuka, M.Ishihara, N.Fukunishi, T.Nakamura, M.Yokoyama

Title: Neutron Halo Effect on Direct Neutron Capture and Photodisintegration

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma), E < 0.5 \text{ MeV}$; calculated $\sigma(E)$. $^{11}\text{Be}(\gamma, X), E < 5 \text{ MeV}$; calculated photodisintegration $B(E1)$ energy derivative; deduced neutron halo effect role. ^{13}C level deduced S-factor. Kinematically complete approach.

Keynumber: 1994OH02

Reference: Astrophys.J. 422, 912 (1994)

Authors: T.Ohsaki, Y.Nagai, M.Igashira, T.Shima, K.Takeda, S.Seino, T.Irie

Title: New Measurement of the $^{12}\text{C}(\text{n},\gamma)^{13}\text{C}$ Reaction Cross Section

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma), E = 10\text{-}250 \text{ keV}$; measured $E\gamma, I\gamma$; deduced capture $\sigma(E)$. Maxwellian averaged σ .

Keynumber: 1993NAZU

Reference: Proc.2nd Intern.Symposium on Nuclear Astrophysics, Nuclei in the Cosmos, Karlsruhe, Germany, 6-10 July, 1992, F.Kappeler, K.Wisshak, Eds., IOP Publishing Ltd., Bristol, England, p.215 (1993)

Authors: Y.Nagai, T.Shima, K.Takeda, T.Ohsaki, T.Irie, S.Seino, M.Igashira, H.Kitazawa, S.Shibata, K.Tanaka, T.Fukuda

Title: Neutron Capture Rates of Light Nuclei and Stellar Evolution

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}(\text{n},\gamma), E = 10\text{-}250 \text{ keV}$; measured $E\gamma, \sigma$, reaction rates. Role of neutron capture reactions discussed.

Keynumber: 1992WI08

Reference: Z.Phys. A341, 453 (1992)

Authors: G.-D.Wicke, G.Mondry, F.Smend, G.Fink, P.Doll, S.Hauber, M.Haupenthal, H.Schieler, H.O.Klages

Title: Radiative Capture of Polarized Neutrons by ^{12}C in the Energy Range $E(\text{n}) = 20\text{-}35 \text{ MeV}$

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{polarized n},\gamma), E = 20\text{-}35 \text{ MeV}$; measured $\gamma(\theta)$, asymmetry vs $E, \gamma(\text{recoil})$ -coin; deduced $E2, E1$ capture interference. Direct semidirect model.

Keynumber: 1992JUZZ

Reference: Bull.Am.Phys.Soc. 37, No.2, 902, C8 3 (1992)

Authors: E.T.Jurney, J.W.Starner, J.E.Lynn, S.Raman

Title: Check of the Smith and Wapstra Mass Doublet Measurements

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}, ^{14}\text{N}(\text{n},\gamma), E = \text{reactor}$; measured not given. $^{13}, ^{14}\text{C}, ^{15}\text{N}$ deduced neutron separation energies. Capture γ -spectroscopy. Comparison with Wapstra predictions.

Keynumber: 1992HUZT

Reference: Beijing National Tandem Accelerator Laboratory, 1990-1991, Ann.Rept., p.92 (1992)

Authors: Z.Huang, L.Zhu, L.Hou, D.Ding

Title: The Study of GDR in CIAE

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma), E \approx 6\text{-}22 \text{ MeV}$; measured $\sigma(\theta)$ vs E ; $^2\text{H}(\text{d},\gamma), E = 5.781 \text{ MeV}$; measured $\sigma(\theta)$. $^{56}\text{Fe}(\text{n},\gamma), E = 9 \text{ MeV}$; measured $E\gamma, I\gamma$. $^{40}\text{Ca}(\text{n},\gamma), E = 9.3\text{-}14 \text{ MeV}$; measured $E\gamma, I\gamma$. $^{116}\text{Sn}(^{16}\text{O},\gamma), E = 80 \text{ MeV}$; measured $E\gamma, I\gamma$. ^{132}Ce deduced GDR, GQR, energy, Γ .

Keynumber: 1991NAZY

Reference: Inst.Nucl.Study, Univ.Tokyo, Ann.Rept., 1990, p.55 (1991)

Authors: Y.Nagai, K.Takeda, S.Motoyama, T.Ohsaki, M.Igashira, N.Mukai, F.Uesawa, T.Ando,

H.Kitazawa, T.Fukuda, S.Kubono

Title: Neutron Capture Cross Sections of ^7Li and ^{12}C in Primordial Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ^7Li , $^{12}\text{C}(n,\gamma)$, $E=30$ keV; measured σ .

Keynumber: 1991NA19

Reference: Nucl.Instrum.Methods Phys.Res. B56/57, 492 (1991)

Authors: Y.Nagai, K.Takeda, S.Motoyama, T.Ohsaki, M.Igashira, N.Mukai, F.Uesawa, T.Ando, H.Kitazawa, T.Fukuda

Title: Neutron Capture Cross Sections of Light Nuclei in Primordial Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ^7Li , $^{12}\text{C}(n,\gamma)$, $E=30$ keV; measured radiative capture $E\gamma, I\gamma$; deduced intermediate mass nuclei primordial nucleosynthesis process role.

Keynumber: 1991NA06

Reference: Astrophys.J. 372, 683 (1991)

Authors: Y.Nagai, M.Igashira, K.Takeda, N.Mukai, S.Motoyama, F.Uesawa, H.Kitazawa, T.Fukuda

Title: Measurement of the Neutron Capture Rate of the $^{12}\text{C}(n,\gamma)^{13}\text{C}$ Reaction at Stellar Energy

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=\text{stellar energy}$; measured capture σ ; deduced nucleosynthesis implications.

Keynumber: 1991HU05

Reference: Chin.J.Nucl.Phys. 13, No 2, 97 (1991)

Authors: Z.Huang, L.Zhu, L.Ho, X.Shi, D.Ding

Title: The Measurement of $^{12}\text{C}(n,\gamma)^{13}\text{C}$ Reaction in the Pygmy Resonance Region

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=7\text{-}14$ MeV; measured $\sigma(\theta)$ vs $E, E\gamma, I\gamma, \gamma(\theta)$. ^{13}C deduced pygmy resonance γ -multipolarity.

Keynumber: [1991HO18](#)

Reference: Phys.Rev. C44, 1148 (1991)

Authors: Y.-K.Ho, H.Kitazawa, M.Igashira

Title: Channel-Capture Mechanism in Low-Energy Neutron Capture by ^{12}C

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=\text{threshold-}30$ keV; calculated σ ; deduced reaction mechanism. ^{13}C levels deduced Γ , other parameters.

Keynumber: 1990MA52

Reference: Astrophys.J. 357, 649 (1990)

Authors: R.L.Macklin

Title: Neutron Capture by ^{12}C at Stellar Temperatures

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E < 46$ keV; measured capture effective $\sigma(E)$; deduced Maxwellian averaged σ . Other input.

Keynumber: [1990HA19](#)

Reference: Phys.Rev. C41, 2556 (1990)

Authors: A.Hakansson, A.Lindholm, L.Nilsson, J.Blomgren, P.-O.Soderman, D.M.Drake, S.A.Wender, N.Olsson

Title: $^{12}\text{C}(n,\gamma_0)^{13}\text{C}$ Cross Section in the 8-11 MeV Region

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=8\text{-}11$ MeV; measured $\sigma(\theta=90^\circ)$.

Keynumber: 1989HU15

Reference: Chin.J.Nucl.Phys. 11, No. 4, 55 (1989)

Authors: Z.Huang, J.Liu, Z.Cao, H.Wang, D.Ding

Title: A Study of $^{12}\text{C}(\text{n},\gamma)^{13}\text{C}$ Reaction Induced by 14.2 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma)$, $E=14.2$ MeV; measured $\gamma(\theta)$; deduced γ -multipolarity. Direct-semidirect 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}C , 24 , 25 , ^{26}Mg , 32 , 34 , ^{33}S , 40 , ^{44}Ca (n,γ), $E=\text{slow}$; calculated capture σ .

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

Keynumber: [1987AU02](#)

Reference: Phys.Rev. C35, 393 (1987)

Authors: R.A.August, H.R.Weller, D.R.Tilley

Title: Measurement of the $^{12}\text{C}(\text{n},\gamma_0)^{13}\text{C}$ Cross Section in the Giant Dipole Resonance Region

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma)$, $E=6.5-18.5$ MeV; measured $\sigma(E,\theta)$, $\theta=90^\circ$. Graphite target. Direct-semidirect calculations.

Keynumber: 1986LI16

Reference: Yad.Fiz. 44, 926 (1986)

Authors: E.P.Lifshits

Title: γ Quantum Polarization in ^{12}C Excitation by Polarized Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{polarized n},\gamma)$, $E \leq 9$ MeV; calculated γ CP, linear polarizations.

Keynumber: 1986KE14

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

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

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

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

detector surrounded by quadrisected NaI(Tl) annulus.

Keynumber: 1986BE17

Reference: Nucl.Phys. A456, 426 (1986)

Authors: I.Bergqvist, D.M.Drake, D.K.McDaniels, S.A.Wender, A.Lindholm, L.Nilsson, N.Olsson, R.Zorro, F.S.Dietrich

Title: The $^{12}\text{C}(n,\gamma)^{13}\text{C}$ Reaction in the Giant Resonance Region

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=7-19.5$ MeV; measured $\sigma(E, \theta=90^\circ)$. ^{13}C deduced giant,pygmy resonances. DSD model, $^{12}, ^{13}\text{C}(n,\gamma)$ data input.

Keynumber: 1985LAZX

Reference: Phys.Can. 41, No.3, 34, p.E1 (1985)

Authors: J.R.C.Lafontaine, J.W.Jury, J.Beland, N.R.Roberson, D.R.Tilley, H.R.Weller, J.G.Woodworth

Title: Radiative Neutron Capture Reactions on ^{12}C , ^{13}C and ^{14}N

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}$, $^{14}\text{N}(n,\gamma)$, E not given; measured $\sigma(\theta)$.

Keynumber: 1985AUZZ

Reference: Diss.Abst.Int. 46B, 1600 (1985)

Authors: R.A.August, Jr.

Title: Radiative Capture of Neutrons and Deuterons into ^{13}C : Evidence for a secondary doorway state effect

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=6.5-18.5$ MeV; measured $\sigma(\theta)$. $^{12}\text{C}(\text{polarized } n,\gamma)$, $E=12-18.8$ MeV; measured analyzing, vector analyzing power vs θ . $^{11}\text{B}(\text{polarized } d,\gamma)$, $E=1.6-4$ MeV; measured $\sigma(\theta=90^\circ)$, vector, tensor analyzing power vs θ . ^{13}C deduced resonances, doorway characteristics.

Keynumber: 1984WO05

Reference: Phys.Rev. C29, 1186 (1984)

Authors: J.G.Woodworth, R.A.August, N.R.Roberson, D.R.Tilley, H.R.Weller, J.W.Jury

Title: Polarized Neutron Capture into ^{13}C : Evidence for a secondary doorway state effect

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, (polarized n,γ), $E=12-18.8$ MeV; measured $\sigma(\theta)$, analyzing power. ^{13}C deduced secondary doorway state. Other data input, Legendre polynomial analysis.

Keynumber: 1983HO17

Reference: Nucl.Phys. A406, 18 (1983)

Authors: Y.K.Ho, M.A.Lone

Title: An Interference Effect in the Channel Radiative Neutron Capture Process

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, $E=\text{thermal}$; calculated radiative capture σ ; deduced potential, resonance scattering interference effects.

Keynumber: 1982WOZV

Reference: Bull.Am.Phys.Soc. 27, No.7, 709, BE82 (1982)

Authors: J.G.Woodworth, R.A.August, N.R.Roberson, D.R.Tilley, H.R.Weller, H..Yao, J.W.Jury

Title: Radiative Nucleon Capture by ^{12}C

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(n,\gamma)$, (polarized n,γ), $E=16-21.8$ MeV; measured $\sigma(\theta)$. Direct-semidirect model.

Keynumber: 1982MU14

Reference: Phys.Rev. C26, 2698 (1982)

Authors: S.F.Mughabghab, M.A.Lone, B.C.Robertson

Title: Quantitative Test of the Lane-Lynn Theory of Direct Radiative Capture of Thermal Neutrons by ^{12}C and ^{13}C

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}(\text{n},\gamma), E=\text{thermal}$; measured $\sigma(E\gamma), I\gamma$; deduced capture mechanism. $^{12}, ^{13}\text{C}$ levels deduced S.

Keynumber: 1982JU01

Reference: Phys.Rev. C25, 2810 (1982)

Authors: E.T.Jurney, P.J.Bendt, J.C.Browne

Title: Thermal Neutron Capture Cross Section of Deuterium

Keyword abstract: NUCLEAR REACTIONS $^2\text{H}, ^{12}\text{C}(\text{n},\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma, \sigma$. ^{13}C transitions deduced $I\gamma$.

Keynumber: 1981MUZU

Reference: Bull.Am.Phys.Soc. 26, No.8, 1138, CE2 (1981)

Authors: S.F.Mughabghab, M.A.Lone, B.C.Robertson

Title: Reaction Mechanism of Thermal Neutron Capture in $^{12,13}\text{C}$

Keyword abstract: NUCLEAR REACTIONS $^{12}, ^{13}\text{C}(\text{n},\gamma), E=\text{thermal}$; measured $\sigma(\text{capture}), \text{ratio}$. ^{14}C level deduced spectroscopic factor. Lane-Lynn theory.

Keynumber: 1975SM02

Reference: Phys.Rev. C11, 1392 (1975)

Authors: L.G.Smith, A.H.Wapstra

Title: Masses of Isotopes of H, He, C, N, O, and F

Keyword abstract: ATOMIC MASSES $^3\text{H}, ^3\text{He}, ^{13}, ^{14}\text{C}, ^{14}, ^{15}\text{N}, ^{16}\text{O}, ^{19}\text{F}$; measured atomic mass.

Keyword abstract: NUCLEAR REACTIONS $^2\text{H}, ^3\text{He}, ^{12}, ^{13}\text{C}, ^{14}\text{N}(\text{n},\gamma)$; calculated quadrupole moment.

Keynumber: 1975AR19

Reference: Phys.Rev.Lett. 35, 914 (1975)

Authors: E.D.Arthur, D.M.Drake, I.Halpern

Title: Fore-Aft Anisotropy in the Radiative Capture of 14-MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{10}\text{B}, ^{12}\text{C}, ^{29}\text{Si}, ^{40}\text{Ca}(\text{n},\gamma), E=14\text{ MeV}$; measured γ -yields, $I\gamma(\theta)$.

Keynumber: 1974AUZX

Coden: REPT USNDC-11 P151

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma)$; calculated σ .

Keynumber: 1973BAUM

Coden: REPT INDC(SEC)-35/L P17

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}, ^{28}\text{Si}(\text{n},\gamma)$; calculated σ .

Keynumber: 1972OP01

Reference: Nucl.Phys. A180, 569 (1972)

Authors: A.M.F.Op den Kamp, A.M.J.Spits

Title: Gamma Rays from Thermal-Neutron Capture in Natural and ^{39}K Enriched Potassium

Keyword abstract: NUCLEAR REACTIONS $^{39}, ^{41}\text{K}$, ^1H , ^6Li , ^{12}C , ^{19}F , ^{40}Ar , ^{56}Fe , $^{207}\text{Pb}(\text{n},\gamma)$, E=thermal; ^{19}F , $^{28}\text{Si}(\text{n},\text{n}'\gamma)$, E=fast; measured $\text{E}\gamma$, $\text{I}\gamma$. $^{39}\text{K}(\text{n},\gamma)$, E=thermal; measured $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\gamma$ -coin; deduced Q. $^{40}, ^{42}\text{K}$ deduced levels, γ -branching. Ge(Li), NaI detectors.

Keynumber: 1971JUZZ

Coden: REPT NCSAC-42,P163,E T Journey,5/19/72

Keyword abstract: NUCLEAR REACTIONS $^{12}\text{C}(\text{n},\gamma)$, E=thermal; measured $\text{E}\gamma$, $\text{I}\gamma$. ^{13}C deduced transitions.

Keynumber: 1968SP01

Reference: Nucl.Phys. A113, 395(1968)

Authors: P.Spilling, H.Gruppelaar, H.F.De vries, A.M.J.Spits

Title: The Reactions $^{12}\text{C}(\text{n},\gamma)^{13}\text{C}$ and $^{19}\text{F}(\text{n},\gamma)^{20}\text{F}$

Keyword abstract: NUCLEAR REACTIONS ^6Li , ^{12}C , ^{19}F , $^{56}\text{Fe}(\text{n},\gamma)$, E=thermal; $^{19}\text{F}(\text{n},\text{n}'\gamma)$, E= fast; $^{19}\text{F}(\text{n},\alpha)$, E= fast; measured $\text{E}\gamma$, $\text{I}\gamma$; deduced Q. ^7Li , ^{13}C , ^{16}O , ^{19}F , ^{20}F deduced levels, branchings. Natural targets.

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 , $^{207}\text{Pb}(\text{n},\gamma)$, E = thermal; measured $\text{E}\gamma$; deduced Q. Natural targets.