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78 reference(s) found :

Keynumber: 1999CV01

Reference: Nucl.Phys. A645, 262 (1999)

Authors: F.Cvelbar, A.Likar, T.Vidmar

Title: Angular Distribution Effect on the Integrated Cross Section for Radiative Capture of 14 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , ^{28}Si , ^{89}Y , $^{208}\text{Pb}(n,\gamma)$, $E=14$ MeV; calculated $I_\gamma(\theta)$, Legendre coefficient a_2 . Consistent direct-semidirect model. Comparisons with data.

Keynumber: 1998LI21

Reference: Nucl.Phys. A635, 43 (1998)

Authors: A.Likar, T.Vidmar

Title: Integrated Cross Sections in Fast Neutron Capture in Light Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{28}Si , ^{32}S , $^{40}\text{Ca}(n,\gamma)$, $E=\text{fast}$; calculated $\sigma, \sigma(\theta)$. Direct-semidirect capture model. Comparison with data.

Keynumber: 1997LI03

Reference: Nucl.Phys. A615, 18 (1997)

Authors: A.Likar, T.Vidmar

Title: Neutron Optical Potential from Capture Reactions

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , ^{89}Y , ^{140}Ce , $^{208}\text{Pb}(n,\gamma)$, $E \approx \text{resonance}$; analyzed capture $\sigma(\theta), \sigma(E)$; deduced model parameter dependence. Direct-semidirect model, optical model.

Keynumber: 1996LI04

Reference: Nucl.Phys. A598, 235 (1996)

Authors: A.Likar

Title: Nuclear Dicke States and the Direct-Semidirect Model

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , $^{208}\text{Pb}(n,\gamma)$, $E \leq 20$ MeV; analyzed capture $\sigma(\theta)$ vs E ; deduced nuclear Dicke state role. Modified direct semidirect model.

Keynumber: 1995LI32

Reference: Nucl.Phys. A591, 479 (1995)

Authors: A.Likar, T.Vidmar

Title: Calculation of Fore-Aft Asymmetry of γ -Rays from Fast Neutron Capture in ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E \approx 1-45$ MeV; calculated $\sigma(\theta)$ fore-aft γ asymmetry vs E . Direct-semidirect capture model.

Keynumber: 1992LAZW

Reference: Bull.Am.Phys.Soc. 37, No.2, 963, I7 9 (1992)

Authors: C.M.Laymon, R.O.Nelson, S.A.Wender

Title: $^{40}\text{Ca}(n,\gamma)^{41}\text{Ca}$ Using the Los Alamos White Neutron Source

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=8-44$ MeV; measured $\gamma(\theta)$, asymmetry.

Keynumber: [1992LA20](#)

Reference: Phys.Rev. C46, 1880 (1992)

Authors: C.M.Laymon, R.O.Nelson, S.A.Wender, L.R.Nilsson

Title: Isovector Giant Quadrupole Resonance in the $^{40}\text{Ca}(n,\gamma_0)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=8-44$ MeV; measured $\sigma(\theta)$ vs E,γ -asymmetry. ^{41}Ca deduced isovector GQR parameters.

Keynumber: 1991ZH22

Reference: Chin.J.Nucl.Phys. 13, No 2, 139 (1991)

Authors: Z.Zhao, D.Zhou

Title: Systematics of Excitation Functions for (n,γ) Reaction Above 4 MeV

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , ^{89}Y , ^{140}Ce , ^{165}Ho , $^{208}\text{Pb}(n,\gamma)$, $E \approx 0.5-20$ MeV; calculated $\sigma(E)$. Statistical theory, exciton model.

Keynumber: 1990RU11

Reference: Nucl.Instrum.Methods Phys.Res. B52, 557 (1990)

Authors: W.Ruhm, K.Kato, G.Korschinek, H.Morinaga, A.Urban, L.Zerle, E.Nolte

Title: The Neutron Spectrum of the Hiroshima A-Bomb and the Dosimetry System 1986

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E \leq 3$ keV; measured resonance integral. AMS, γ -spectroscopy techniques.

Keynumber: 1989GU08

Reference: Nuovo Cim. 101A, 111 (1989)

Authors: R.Guidotti, F.Saporetti, G.Maino, A.Ventura

Title: On the Distortions of Direct-Semi-Direct Model Predictions for Nucleon Radiative Capture

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=10-13$ MeV; calculated $\sigma(\theta)$ coefficients vs E ; deduced nuclear force range dependence. 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 , $^{12,13}\text{C}$, $^{24,25,26}\text{Mg}$, $^{32,34,33}\text{S}$, $^{40,44}\text{Ca}(n,\gamma)$, $E=\text{slow}$; calculated capture σ .

Keynumber: 1988LI21

Reference: Chin.J.Nucl.Phys. 10, 274 (1988)

Authors: Liu Jianfeng, Ho Yukun

Title: Non-Statistical Effects in the Fast Neutron Radiative Capture Cross Sections for ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=3-15$ MeV; calculated capture $\sigma(E)$. Compound, direct-semidirect reactions.

Keynumber: 1987LO02

Reference: Europhys.Lett. 3, 45 (1987)

Authors: G.Longo

Title: j-Dependence in Radiative Capture of Polarized Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{40,41}\text{Ca}(\text{polarized } n,\gamma)$, $E=5-40$ MeV; calculated distribution functions $B(E_n,\theta\gamma)$. Direct-semidirect model.

Keynumber: 1987LI05

Reference: Chin.J.Nucl.Phys. 9, 21 (1987)

Authors: Liu Zianfeng, Ho Yukun

Title: Non-Statistical Effects in the Radiative Neutron Capture at the 3s Giant Resonance Region

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , ^{48}Ti , ^{52}Cr , ^{56}Fe , ^{64}Ni , $^{74}\text{Ge}(n,\gamma)$, $E=0.1-3$ MeV; calculated $\sigma(E)$. ^{41}Ca , ^{49}Ti , ^{53}Cr , ^{57}Fe , ^{65}Ni , ^{75}Ge deduced neutron giant resonance strength. Statistical, nonstatistical effects.

Keynumber: [1987KA28](#)

Reference: Phys.Rev. C36, 533 (1987)

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

Title: Analysis of Primary Electric Dipole Gamma Rays from Slow-Neutron Capture by Ca Isotopes

Keyword abstract: NUCLEAR REACTIONS 40 , 42 , 44 , 46 , $^{48}\text{Ca}(n,\gamma)$, $E=\text{thermal}$; calculated direct capture σ . 41 , 43 , 45 , 47 , ^{49}Ca deduced resonance parameters. Optical model.

Keynumber: 1986POZU

Reference: Proc.Inter.Conf.on Fast Neutron Physics, Dubrovnik, Yugoslavia, May 26-31, 1986, D.Miljanic, B.Antolkovic, G.Paic, Eds., Ruder Boskovic Institute, Zagreb, p.144 (1986)

Authors: M.Potokar

Title: Models for Radiative Neutron Capture in Nuclear Giant Resonance Region

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(\text{polarized } n,\gamma)$, $E=5-15$ MeV; $^{208}\text{Pb}(n,\gamma)$, $E=5-16$ MeV; $^{40}\text{Ca}(n,\gamma)$, $E=5-28$ MeV; $^{16}\text{O}(\gamma,p)$, $E=16-30$ MeV; calculated $\sigma(E,\theta)$. Direct-semidirect model.

Keynumber: 1986GU21

Reference: Nuovo Cim. 96A, 323 (1986)

Authors: R.Guidotti, F.Saporetti, G.Maino, A.Ventura

Title: Nuclear Shell Effects on the Radial Coupling Form in Collective (N,γ) Processes

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=6-18$ MeV; calculated $\sigma(E,\theta)$; deduced dipole, quadrupole capture $\sigma(E)$, shell effects. Direct-semi-direct model.

Keynumber: 1985UC01

Reference: Z.Phys. A320, 273 (1985)

Authors: T.Uchiyama, H.Morinaga

Title: Disappearance of the Hindrance of E1-Transition Involving Loosely Bound Nucleon

Keyword abstract: NUCLEAR STRUCTURE ^{11}Be , ^{13}C ; calculated effective charges, $B(E1)$; deduced E1 transition hindrance disappearance. Cutoff, particle-GDR coupling models.

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=\text{slow}$; calculated capture σ , $I\gamma$ ratio. ^{136}Xe , ^{138}Ba , ^{140}Ce , ^{142}Nd , $^{144}\text{Sm}(n,\gamma)$, $E=\text{slow}$; calculated capture σ . Direct capture model.

Keynumber: 1985GU16

Reference: Nuovo Cim. 90A, 349 (1985)

Authors: R.Guidotti, F.Saporetti

Title: Influence of the Nucleon-Nucleon Interaction Range on the Effective-Charge Renormalization in Neutron Radiative Capture

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E \approx 0-18$ MeV; calculated $\sigma(\theta)$ vs E ; deduced nucleon-nucleon interaction range role. DSD model.

Keynumber: 1984LOZQ

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.1, p.277 (1984)

Authors: G.Longo, F.Fabbri, C.Mazzotti

Title: Angular Distributions of Photons following the Capture of 4-50 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{40}Ca , $^{120}\text{Sn}(n,\gamma)$, $E=4-50$ MeV; calculated $\sigma(E, E\gamma, \theta)$. Direct-semidirect model.

Keynumber: 1984BE25

Reference: Nucl.Phys. A419, 509 (1984)

Authors: I.Bergqvist, R.Zorro, A.Hakansson, A.Lindholm, L.Nilsson, N.Olsson, A.Likar

Title: The Giant Isovector E2 Resonance in Calcium Observed in Radiative Neutron Capture

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=7-28$ MeV; measured $\sigma(\theta)$ vs E, γ asymmetry. ^{41}Ca deduced isovector GQR parameters, E1, E2 interference. Direct-semidirect capture model.

Keynumber: 1984AM09

Reference: Yad.Fiz. 40, 1321 (1984); Sov.J.Nucl.Phys. 40, 839 (1984)

Authors: M.Ya.Amusya, I.S.Gulkarov, M.B.Zhalov, T.M.Potapova

Title: Influence of Nuclear Structure on the Bremsstrahlung Spectra of Fast Nucleons

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, (p,γ) , $E=1$ GeV; calculated bremsstrahlung $\sigma(\theta)$.

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: 1983NIZZ

Reference: Tandem Accelerator Lab, Uppsala, 1982 Biennial p.48 (1983)

Authors: L.Nilsson, A.Lindholm, A.Hakansson, N.Olsson, I.Bergqvist, R.Zorro, A.Likar

Title: The $^{40}\text{Ca}(n,\gamma)^{41}\text{Ca}$ Reaction in the Region of the Isovector Quadrupole Resonance

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, $E=20-28$ MeV; measured $\sigma(\theta=90^\circ)$, γ -anisotropy data. ^{41}Ca deduced isovector E2 giant resonance. Direct-semidirect model.

Keynumber: 1983FIZX

Reference: Bull.Am.Phys.Soc. 28, No.4, 649, AF7 (1983)

Authors: C.Fitzpatrick, N.R.Roberson, H.R.Weller, D.R.Tilley

Title: Radiative Capture of Neutrons by ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(\text{polarized } n,\gamma)$, $E=6-17$ MeV; measured $\sigma(\theta)$, $A(\theta)$, yield vs E . ^{41}Ca deduced isoscalar E2 resonance, direct M1 strength.

Keynumber: 1983FIZQ

Reference: Diss.Abst.Int. 44B, 1500 (1983)

Authors: C.M.Fitzpatrick

Title: Radiative Neutron Capture into the Giant Resonance Region of Calcium-41

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, (polarized n,γ), E =resonance; measured yield, $\sigma(\theta)$, analyzing power. ^{41}Ca deduced non-E1 effects in GDR region.

Keynumber: 1982RA32

Reference: Indian J.Pure Appl.Phys. 20, 627 (1982)

Authors: S.K.Rathi, V.P.Varshney, H.M.Agrawal

Title: Calculations of Neutron Capture Cross-Sections for some Nuclei using Bilpuch Formula

Keyword abstract: NUCLEAR REACTIONS $^{40, 43}\text{Ca}$, $^{52, 53}\text{Cr}$, $^{54, 56}\text{Fe}$, ^{88}Sr , $^{90, 91, 92, 94}\text{Zr}$, ^{93}Nb , $^{92, 94, 95, 96, 97, 98, 100}\text{Mo}$, ^{138}Ba , ^{139}La , ^{140}Ce , $^{203}\text{Tl}(n,\gamma)$, $E=24$ keV; calculated $\sigma(\text{capture})$. Experimental parameters, Bilpuch formula.

Keynumber: 1981SA36

Reference: Lett.Nuovo Cim. 32, 251 (1981)

Authors: F.Saporetti, R.Guidotti

Title: Semi-Direct Model Analysis of the Quadrupole Radiation in the $^{40}\text{Ca}(n,\gamma_0)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$, (polarized n,γ), $E=6-16$ MeV; calculated $\sigma(\theta)$ vs E . Direct semi-direct model.

Keynumber: 1981HEZY

Reference: ORNL/TM-7752 (1981)

Authors: D.M.Hetrick, C.Y.Fu

Title: A Calculation of Neutron and Gamma-Ray Production Cross Sections for Calcium from 8 to 20 MeV

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,n')$, (n,γ) , (n,np) , (n,p) , $(n,2p)$, $(n,p\alpha)$, $(n,n\alpha)$, $(n,2\alpha)$, (n,α) , $E=8-20$ MeV; calculated $\sigma(E)$.

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 =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: 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 , $^{24, 25}\text{Mg}$, ^{27}Al , $^{28, 29}\text{Si}$, ^{32}S , ^{35}Cl , 40 ,

⁴⁴Ca, ⁴⁷, ⁴⁸, ⁴⁹Ti, ⁵⁰, ⁵², ⁵³Cr, ⁵⁵Mn, ⁵⁴, ⁵⁶, ⁵⁷Fe(n,γ),E=thermal; measured Eγ,Iγ. ²H, ¹⁰Be, ²⁵, ²⁶Mg, ²⁸Al, ²⁹, ³⁰Si, ³³S, ³⁶Cl, ⁴¹, ⁴⁵Ca, ⁴⁸, ⁴⁹, ⁵⁰Ti, ⁵¹, ⁵³, ⁵⁴Cr, ⁵⁶Mn, ⁵⁵, ⁵⁷, ⁵⁸Fe deduced Q,neutron binding energy.

Keynumber: 1979LIZL

Coden: REPT TLU-66/79,Lindholm

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca, ⁵⁹Ni, ⁸⁹Y, ²⁰⁶Pb(n,γ),E=2.5-11 MeV; measured Eγ,Iγ,σ. direct-semidirect,compound nucleus model analysis.

Keynumber: 1979KN04

Reference: Aust.J.Phys. 32, 439 (1979)

Authors: V.A.Knatko, B.A.Martsynkevich, E.A.Rudak

Title: An Analysis of the γ-Ray Decay of Weak s Resonances in ⁴⁰Ca

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(n,γ), E=thermal, resonance; analyzed capture data. ⁴¹Ca levels deduced S,B(M1),B(E2) for L=1,3,Γγ for L=0 captures. Core-nucleon model.

Keynumber: 1979JEZX

Coden: JOUR BAPSA 24 646,GK3,Jensen

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(polarized n,γ),E=7-11 MeV; measured σ(θ),A(θ). ⁴¹Ca deduced E2 contribution in GDR region.

Keynumber: 1979JE03

Reference: Z.Phys. A291, 609 (1979)

Authors: M.Jensen, D.R.Tilley, H.R.Weller, N.R.Roberson, S.A.Wender, T.B.Clegg

Title: Polarized-Neutron Capture in the Giant-Resonance Region of ⁴¹Ca

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(polarized n,γ),E=10 MeV; measured σ(θ),A(θ). ⁴¹Ca deduced E2 contribution in giant dipole region. Legendre polynomial analysis.

Keynumber: 1978WE11

Reference: Phys.Rev.Lett. 41, 1217 (1978)

Authors: S.A.Wender, N.R.Roberson, M.Potokar, H.R.Weller, D.R.Tilley

Title: Quadrupole Radiation in Fast-Neutron Capture on ⁴⁰Ca

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(n,γ),E=6-13 MeV; measured σ(E). DSD calculations.

Keynumber: 1978WE02

Reference: Phys.Rev. C17, 1260 (1978)

Authors: H.R.Weller, R.A.Blue, P.L.Von Behren, N.R.Roberson, C.R.Gould, D.R.Tilley, S.A.Wender

Title: Angular Distribution Measurements for Radiative Capture of Fast Neutrons by ⁴⁰Ca

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(n,γ),E=8.0,12.0 MeV; measured σ(θ). DSD calculations.

Keynumber: 1978ROZF

Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No66,Robertson

Keyword abstract: NUCLEAR REACTIONS ⁴⁰Ca(n,γ),E=6-13 MeV; measured σ(E,θ). ⁴¹Ca deduced evidence for giant quadrupole resonance. Extended direct-semidirect model.

Keynumber: 1978ROYS**Coden:** CONF Brookhaven(Neutron Capt γ -Ray Spectr),Proc,P731,Roberson**Keyword abstract:** NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=6-13\text{ MeV}$; measured $\sigma(E,\theta=90^\circ)$. ^{41}Ca deduced evidence for T=0,GQR. Legendre polynomial analysis. Extended direct-semidirect model.**Keynumber:** 1978BEYD**Coden:** REPT Uppsala,Tandem Accelerator Lab,1978 Ann,p55,7-4-2,Bergqvist**Keyword abstract:** NUCLEAR REACTIONS ^{28}Si , ^{32}S , ^{40}Ca , ^{89}Y , ^{140}Ce , $^{208}\text{Pb}(n,\gamma),E=5-15\text{ MeV}$; measured σ . direct-semidirect,compound nuclear models.**Keynumber:** 1978ALZK**Coden:** CONF Brookhaven(Neutron Capt γ -Ray Spectr),Proc,P535,Allen**Keyword abstract:** NUCLEAR REACTIONS ^{40}Ca , ^{45}Sc , 54 , 56 , $^{57}\text{Fe}(n,\gamma),E=\text{thermal}$; calculated radiative widths,variances. Statistical,valence,door-way models.**Keynumber:** 1978ALYZ**Coden:** CONF BNL(Neutron Capt γ -Ray Spectr),Contrib,No5,Allen**Keyword abstract:** NUCLEAR REACTIONS ^{40}Ca , ^{45}Sc , 54 , 56 , $^{57}\text{Fe}(n,\gamma)$; calculated L=0,1 radiative widths. ^{55}Fe deduced dominance of valence effects. ^{41}Ca , ^{46}Sc , 57 , ^{58}Fe deduced evidence for doorway components.**Keynumber:** 1977VOZY**Coden:** JOUR BAPSA 22 542 BE7,Vonbehren**Keyword abstract:** NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=7-12\text{ MeV}$; measured $\sigma(E,E\gamma)$.**Keynumber:** 1977PO01**Reference:** Nucl.Phys. A277, 29 (1977)**Authors:** M.Potokar, A.Likar, M.Budnar, F.Cvelbar**Title:** Analysis of Fast Neutron Capture Data Based on the Refined Direct-Semidirect Model**Keyword abstract:** NUCLEAR REACTIONS ^{208}Pb , ^{88}Sr , ^{40}Ca , $^{89}\text{Y}(n,\gamma),E \approx 14\text{ MeV}$; calculated σ .**Keynumber:** 1977MI05**Reference:** Z.Phys. A282, 117 (1977)**Authors:** M.Micklinghoff, B.Castel**Title:** Higher Order Processes in the Radiative Capture of Fast Neutrons**Keyword abstract:** NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$; calculated σ ; predicted single particle resonances superimposed on broad giant resonance.**Keynumber:** 1977LI08**Reference:** Nucl.Phys. A280, 49 (1977)**Authors:** A.Likar, M.Potokar, F.Cvelbar**Title:** Angular Distribution of γ -Rays from the Radiative Capture of Fast Nucleons**Keyword abstract:** NUCLEAR REACTIONS ^{88}Sr , ^{40}Ca , $^{208}\text{Pb}(n,\gamma),E=4-20\text{ MeV}$; ^{39}K , $^{64}\text{Ni}(p,\gamma),E < 25\text{ MeV}$; calculated $\gamma(\theta)$ coefficient.**Keynumber:** 1976MU05**Reference:** Nucl.Phys. A259, 365 (1976)**Authors:** A.R.de L.Musgrove, B.J.Allen, J.W.Boldeman, D.M.H.Chan, R.L.Macklin

Title: Resonant Neutron Capture in ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma), E=2.5-300$ keV; measured $\sigma(E, E\gamma)$; deduced valence component. ^{41}Ca deduced resonance parameters, L, J, π, Γ .

Keynumber: 1976BA17

Reference: Phys.Lett. 61B, 441 (1976)

Authors: R.F.Barrett, B.J.Allen, M.J.Kenny, A.R.De L. Musgrove

Title: An Investigation of d-Wave Neutron Capture in the $^{40}\text{Ca}(n,\gamma)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma), E \leq 430$ keV; measured $\sigma(E, E\gamma)$.

Keynumber: 1975LI26

Reference: Fizika 7, 157 (1975)

Authors: A.Likar, M.Potokar, F.Cvelbar

Title: Angular Distribution of Neutron Capture γ -Rays in the Semidirect Capture Model

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}, ^{207}\text{Pb}(n,\gamma), E < 20$ MeV; calculated angular distribution in GDR region.

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

Keynumber: 1975ALZW

Coden: JOUR BAPSA 20 150 EB16

Keyword abstract: NUCLEAR REACTIONS $^{27}\text{Al}, ^{28}\text{Si}, ^{40}\text{Ca}, ^{48}\text{Ti}, ^{52}\text{Cr}, ^{90}\text{Zr}, ^{138}\text{Ba}(n,\gamma), E > 2.5$ keV; measured $\sigma(E\gamma)$.

Keynumber: 1974SIZQ

Coden: REPT USNDC-11 P67

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$; measured $\sigma(E, E\gamma)$. ^{41}Ca resonances deduced level-width.

Keynumber: 1974SI26

Reference: Phys.Rev. C10, 2143 (1974)

Authors: U.N.Singh, H.I.Liou, J.Rainwater, G.Hacken, W.Makofske, J.B.Garg

Title: Neutron Resonance Spectroscopy: Calcium

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,n), (n,\gamma), E=0-550$ keV; measured $\sigma(E)$. ^{41}Ca resonances deduced $E, \text{level-width}, S$.

Keynumber: 1974NI03

Reference: Phys.Lett. 49B, 165 (1974)

Authors: L.Nilsson, J.Eriksson

Title: Isospin Effects in Fast Neutron Radiative Capture

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$; calculated $\sigma(E), \text{GDR}$.

Keynumber: 1974MCZF

Coden: JOUR BAPSA 19 1077 AB10

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma$ -coin. ^{41}Ca deduced levels.

Keynumber: 1974BE55

Reference: Nucl.Phys. A231, 29 (1974)

Authors: I.Bergqvist, D.M.Drake, D.K.McDaniels

Title: Radiative Capture of Fast Neutrons by ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=6.8-18.2\text{ MeV}$; measured $\sigma(E,E\gamma)$; deduced reaction mechanism.

Keynumber: 1974BE39

Reference: Nukleonika 19, 411 (1974)

Authors: I.Bergqvist

Title: Semidirect Capture of Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=14-15\text{ MeV}$; $^{208}\text{Pb}(n,\gamma),E=9.2-14.7\text{ MeV}$; calculated σ .

Keynumber: 1974ARZV

Coden: JOUR BAPSA 19 497 EF9

Keyword abstract: NUCLEAR REACTIONS ^{10}B , ^{29}Si , $^{40}\text{Ca}(n,\gamma)$; measured $\sigma(\theta)$.

Keynumber: 1974ALZU

Coden: PREPRINT B J Allen,2/11/74

Keyword abstract: NUCLEAR REACTIONS $^{40}, ^{42}, ^{43}, ^{44}\text{Ca}(n,\gamma),E=2.5-600\text{ keV}$; measured $\sigma(E)$. $^{41}, ^{43}, ^{44}, ^{45}\text{Ca}$ deduced resonances, γ -width, n -width.

Keynumber: 1973PO12

Reference: Phys.Lett. 46B, 346 (1973)

Authors: M.Potokar

Title: The Complex Coupling Interaction in the Radiative Capture of Fast Nucleons

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=12-24\text{ MeV}$; calculated $\sigma(E)$.

Keynumber: 1973NIZM

Coden: REPT TLU-21-73,mf

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma),E=4-20\text{ MeV}$; calculated $\sigma(E,E\gamma)$. ^{41}Ca GDR deduced isospin splitting effects.

Keynumber: 1973GEYY

Coden: REPT INDC(SEC)-35/L P6

Keyword abstract: NUCLEAR REACTIONS $^{40}, ^{42}, ^{43}, ^{44}\text{Ca}(n,\gamma)$; calculated $\sigma(E)$. $^{41}, ^{43}, ^{44}, ^{45}\text{Ca}$ levels deduced level-width.

Keynumber: 1973BEVG

Coden: CONF Asilomar(Photonuclear Reactions),Vol2 P945

Keyword abstract: NUCLEAR REACTIONS $^{40}\text{Ca}(n,\gamma)$; measured $I\gamma, \sigma(E)$.

Keynumber: 1973ARZB

Coden: JOUR BAPSA 18 1401 CE1

Keyword abstract: NUCLEAR REACTIONS ^{10}B , ^{29}Si , $^{40}\text{Ca}(n,\gamma)$; measured $\gamma(\theta)$.

Keynumber: 1972ST04

Reference: Nucl.Phys. A181, 225 (1972)

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

Title: Circular Polarization of Neutron Capture γ -Rays from Al, Ar and Ca

Keyword abstract: NUCLEAR REACTIONS ^{27}Al , ^{40}Ar , 40 , $^{44}\text{Ca}(\text{polarized } n,\gamma)$; E=thermal; measured γ -CP. ^{28}Al , ^{41}Ar , 41 , ^{45}Ca levels deduced J, π . ^{28}Al transition deduced γ -mixing. Natural targets.

Keynumber: 1972POZJ

Coden: CONF Budapest,Contributions,P250,10/13/72

Keyword abstract: NUCLEAR REACTIONS ^{28}Si , ^{40}Ca , ^{88}Sr , ^{138}Ba , $^{208}\text{Pb}(n,\gamma)$; E=14 MeV; calculated $\sigma(E\gamma)$.

Keynumber: 1971CH56

Reference: Aust.J.Phys. 24, 671 (1971)

Authors: D.M.H.Chan, J.R.Bird

Title: Study of γ -Radiation Following keV Neutron Capture in Calcium Isotopes

Keyword abstract: NUCLEAR REACTIONS Ca, 40 , 42 , $^{44}\text{Ca}(n,\gamma)$, measured $E\gamma, I\gamma$. 41 , 43 , ^{45}Ca deduced resonances, transitions.

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}Ca , Ti, V, Fe, 54 , ^{56}Fe , Ni, 58 , ^{60}Ni , ^{63}Cu , Zn(n,γ), E=10-100 keV; measured $E\gamma, I\gamma$. 9 inx 12 in NaI detector.

Keynumber: 1971ARZJ

Coden: CONF Legnaro(1f $_{7/2}$ Nuclei), P251

Keyword abstract: NUCLEAR REACTIONS ^{36}Ar , ^{40}Ar , ^{40}K , 40 , 42 , 44 , 46 , ^{48}Ca , ^{47}Ti , ^{55}Mn , ^{57}Fe , $^{59}\text{Co}(n,\gamma)$, E=thermal; surveyed $E\gamma, I\gamma, \gamma\gamma$ -coin, $\gamma\gamma(\theta)$, γ -polarization data. ^{37}Ar , ^{41}Ar , ^{41}K , 41 , 43 , 45 , 47 , ^{49}Ca , ^{48}Ti , ^{56}Mn , ^{58}Fe , ^{60}Co deduced levels, J, π , γ -mixing.

Keynumber: 1971ALYW

Coden: REPT CONF-730538-1

Keyword abstract: NUCLEAR REACTIONS 40 , 42 , 43 , ^{44}Ca , 134 , 135 , 136 , 137 , $^{138}\text{Ba}(n,\gamma)$; measured $\sigma(E)$.

Keynumber: 1970JAZN

Coden: REPT PH-7, J Jafar

Keyword abstract: NUCLEAR REACTIONS ^{20}Ne , ^{24}Mg , ^{30}Si , ^{32}S , ^{34}S , ^{36}Ar , ^{40}Ca , ^{27}Al (n,γ), E=thermal; surveyed, analyzed $E\gamma, I\gamma$ data. ^{21}Ne , ^{25}Mg , ^{31}Si , 33 , ^{35}S , ^{37}Ar , ^{41}Ca , ^{28}Al deduced levels, γ -branching.

Keynumber: 1970CV02

Reference: Nucl.Phys. A159, 555 (1970)

Authors: F.Cvelbar, A.Hudoklin

Title: Gamma-Ray Spectra from the Radiative Capture of 14 MeV Neutrons in ^{28}Si and ^{40}Ca

Keyword abstract: NUCLEAR REACTIONS ^{28}Si , $^{40}\text{Ca}(n,\gamma)$, E=14 MeV; calculated $\sigma(E\gamma)$. Direct-semidirect, statistical models.

Keynumber: 1970CV01

Reference: Nucl.Phys. A158, 251 (1970)

Authors: F.Cvelbar, A.Hudoklin, M.Potokar

Title: Comparison between the Activation Cross Sections and Integrated Cross Sections for the Radiative Capture of 14 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS Mg, ^{27}Al , Si, ^{31}P , ^{32}S , ^{40}Ca , ^{51}V , ^{52}Cr , ^{55}Mn , Fe, Cu, Br, Se, ^{115}In , ^{127}I , Ba(n, γ), E=14 MeV; measured $\sigma(E\gamma)$; deduced integrated σ .

Keynumber: 1970CR04

Reference: Nucl.Phys. A153, 413 (1970)

Authors: F.P.Cranston, R.E.Birkett, D.H.White, J.A.Hughes

Title: Levels in ^{47}Ca and ^{41}Ca Populated in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS 40 , $^{46}\text{Ca}(n,\gamma)$, E=thermal; measured $E\gamma$, I γ ; deduced Q. 41 , ^{47}Ca deduced levels, γ -branching. 44 , 45 , ^{49}Ca , 47 , ^{49}Sc deduced transitions. Enriched target.

Keynumber: 1969AB03

Reference: Nucl.Phys. A124, 34 (1969)

Authors: K.Abrahams, W.Ratynski

Title: Circular Polarization of γ -Radiation After Capture of Polarized Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{39}K , ^{40}Ca , ^{48}Ti , ^{59}Co , ^{113}Cd , $^{207}\text{Pb}(n,\gamma)$, E=thermal; measured P γ , E γ . ^{40}K , ^{41}Ca , ^{49}Ti , ^{60}Co , ^{114}Cd , ^{208}Pb , deduced levels, J, delta. Natural targets, 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 ^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 = thermal; measured E γ ; deduced Q. Natural targets.

Keynumber: 1967GR16

Reference: Nucl.Phys. A102, 226 (1967)

Authors: H.Gruppelaar, P.Spilling

Title: Thermal-Neutron Capture Gamma Rays from Natural Calcium

Keyword abstract: NUCLEAR REACTIONS 40 , $^{44}\text{Ca}(n,\gamma)$, E=thermal; measured E γ , I γ ; deduced Q. 41 , ^{45}Ca deduced levels, branching. Enriched ^{40}Ca target, Ge(Li) detector.