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45 reference(s) found :

Keynumber: 1997ROZZ
Reference: INDC(CPR)-042/L, p.93 (1997)
Authors: J.Rong, G.Lui
Title: The Integral Test of the Reactor Dosimetry Data
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, $^{46, 47, 48}$Ti, $^{54, 56}$Fe, $^{58, 60}$Ni, ^{32}S(n,p), ^{27}Al, ^{59}Co, ^{63}Cu(n,α), ^{55}Mn, ^{59}Co, ^{58}Ni, ^{65}Cu(n,2n), ^{23}Na, ^{45}Sc, ^{59}Co, ^{58}Fe, ^{63}Cu, ^{115}In, ^{197}Au, ^{232}Th, ^{238}U(n,γ), $^{235, 238}$U, ^{232}Th, ^{237}Np, ^{239}Pu(n,F), $^{47, 48}$Ti(n,np), ^{6}Li, ^{10}B, ^{115}In(n,X),E=reactor; calculated spectrum averaged σ. Several data libraries compared.

Keynumber: 1997KA47
Reference: J.Radioanal.Nucl.Chem. 215, 193 (1997)
Authors: S.I.Kafala, T.D.MacMahon, S.B.Borzakov
Title: Neutron Activation for Precise Nuclear Data
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{50}Cr, ^{59}Co, ^{64}Zn, ^{75}As, ^{85}Rb, ^{113}In, $^{121, 123}$Sb, ^{130}Ba, ^{133}Cs, ^{139}La, $^{140, 142}$Ce, ^{146}Nd, $^{151, 153}$Eu, ^{152}Gd, ^{152}Sm, ^{159}Tb, ^{165}Ho, ^{174}Yb, ^{180}Hf, ^{181}Ta, ^{186}W, ^{232}Pa, ^{238}Np(n,γ),E=reactor; measured Eγ,Iγ; deduced capture σ,resonance integral,least-squares fit parameters. Multi-element standard.

Keynumber: 1995MO40
Reference: Aust.J.Phys. 48, 125 (1995)
Authors: A.J.Morton, D.G.Sargood
Title: Thermonuclear Reactions Rates for Reactions Leading to N = 28 Nuclei
Keyword abstract: NUCLEAR REACTIONS $^{44, 46}$K, $^{46, 47, 48}$Ca, $^{45, 47, 48, 49, 50}$Sc, $^{46, 47, 48, 49, 50}$Ti, $^{47, 48, 49, 50, 51}$V, $^{48, 49, 50, 51, 52}$Cr, $^{51, 52, 53}$Mn, $^{52, 53, 54}$Fe, ^{55}Co(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E not given; ^{56}Ni(n,γ), (n,p), (n,α), (α,γ), (α,n), (α,p),E not given; ^{46}Ar, $^{45, 47}$K (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E not given; calculated stellar reaction rates vs temperature. Statistical model calculations,optical-model potential.

Keynumber: 1991HI23
Reference: J.Radioanal.Nucl.Chem. 153, 169 (1991)
Authors: P.Z.Hien, T.K.Mai, T.X.Quang, N.V.Loc, T.N.Thuy
Title: Determination of k_0-Factors of Short-Lived Nuclides (T $\geq$ 1 Min) by Thermal Neutron Activation Technique
Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{37}Cl, ^{45}Sc, ^{76}Se, ^{103}Rh, ^{106}Pd, ^{109}Ag, ^{138}Ce, ^{164}Dy, ^{166}Er, ^{178}Hf(n,γ),E=thermal; measured γ-spectra. ^{20}F, ^{38m}Cl, ^{46m}Sc, ^{77m}Se, ^{104}Rh, ^{107}Pd, ^{110}Ag, ^{139m}Ce, ^{165m}Dy, ^{167m}Er, ^{179m}Hf deduced k_0-Au factors.

Keynumber: 1989CV01
Reference: Z.Phys. A332, 163 (1989)
Authors: F.Cvelbar, E.Betak
Title: Exciton Model Comparison of the Activation and the Integrated 14 MeV Neutron Radiative Capture Cross Sections
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{51}V, ^{45}Sc, ^{55}Mn, ^{127}I, ^{141}Pr, ^{208}Pb, ^{209}Bi

(n,γ),E=14.1 MeV; calculated σ(E(γ)). Exciton model.

Keynumber: 1986KR16
Reference: Phys.Rev. C34, 2103 (1986)
Authors: B.Krusche, K.P.Lieb
Title: Dipole Transition Strengths and Level Densities A ≤ 80 Odd-Odd Nuclei Obtained from Thermal Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{23}Na, ^{27}Al, ^{31}P, ^{35}Cl, ^{39}, ^{41}K, ^{45}Sc, ^{55}Mn, ^{59}Co, ^{63}, ^{65}Cu, ^{71}Ga, ^{75}As, ^{79}Br(n,γ),E=thermal; analyzed data. ^{20}F, ^{24}Na, ^{28}Al, ^{32}P, ^{36}Cl, ^{40}, ^{42}K, ^{46}Sc, ^{56}Mn, ^{60}Co, ^{64}, ^{66}Cu, ^{72}Ga, ^{76}As, ^{80}Br deduced primary E1,M1 transition strengths,level density parameters. Bethe,constant temperature Fermi gas models.

Keynumber: 1985EL10
Reference: J.Phys.(London) D18, 1967 (1985)
Authors: T.Elnimr, F.A.El-Hussiny
Title: Further Work on the Use of K(e,0) Factors as a Tool for a Critical Evaluation of Reactor Thermal and Epithermal (n,γ) Cross Sections and of Absolute Gamma Intensities
Keyword abstract: NUCLEAR REACTIONS Mg, ^{27}Al,Ca, ^{45}Sc,Fe,Ga, ^{75}As,S,Se,Br,Ru,Rh (n,γ),E=thermal,epithermal; analyzed (K(e),0) factors data; deduced reaction σ,absolute Iγ.

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}Ne, ^{23}Na, ^{24}, ^{25}, ^{26}Mg, ^{27}Al, ^{28}, ^{29}, ^{30}Si, ^{31}P, ^{32}, ^{33}, ^{34}, ^{36}S, ^{35}, ^{37}Cl, ^{36}, ^{38}, ^{40}Ar, ^{39}, ^{40}, ^{41}K, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}Sc, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}Ti, ^{50}, ^{51}V, ^{50}, ^{52}, ^{53}, ^{54}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co, ^{58}, ^{60}, ^{61}, ^{62}, ^{64}Ni, ^{63}, ^{65}Cu, ^{64}, ^{66}, ^{67}Zn(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), ^{70}Zn(p,γ), (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: 1983IS05
Reference: Z.Phys. A311, 195 (1983)
Authors: M.A.Islam, T.J.Kennett, W.V.Prestwich
Title: A Probabilistic Model for Spectral Assignment in the (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{35}Cl, ^{162}, ^{164}Dy, ^{165}Ho(n,γ),E not given; analyzed capture data; deduced γ-transition spectral assignment. Probabilistic model.

Keynumber: 1983AH01
Reference: Ann.Nucl.Energy 10, 41 (1983)
Authors: A.Ahmad
Title: Analysis and Evaluation of Thermal and Resonance Neutron Activation Data
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{50}Ti, ^{50}Cr, ^{51}V, ^{55}Mn, ^{58}Fe, ^{59}Co, ^{74}Se, ^{85}Rb, ^{94}, ^{96}Zr, ^{123}Sb, ^{130}Ba, ^{133}Cs, ^{139}La, ^{140}Ce, ^{159}Tb, ^{180}Hf, ^{181}Ta, ^{197}Au(n,γ),E=thermal,epithermal; analyzed data. Generalized least-squares fit.

Keynumber: 1982TI02
Reference: Nucl.Phys. A376, 421 (1982)

Authors: T.A.A.Tielens, J.Kopecky, F.Stecher-Rasmussen, W.Ratynski, K.Abrahams, P.M.Endt

Title: Investigation of the ^{45}Sc(n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ; deduced Q-value. ^{46}Sc deduced levels J,π,γ-branching.

Keynumber: 1981AR22

Reference: Yad.Fiz. 34, 1028 (1981)

Authors: L.Ya.Arifov, B.S.Mazitov, V.G.Ulanov

Title: Relative Probability of Isomer Population in Radiative Capture

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{59}Co, $^{68,\ 70}$Zn, $^{74,\ 76}$Ge, $^{80,\ 82}$Se, ^{84}Kr, ^{85}Rb, ^{84}Sr, ^{89}Y, ^{103}Rh, $^{108,\ 110}$Pd, ^{109}Ag, ^{114}Cd, $^{113,\ 115}$In, $^{112,\ 120,\ 122,\ 124}$Sn, ^{121}Sb, $^{120,\ 126,\ 128,\ 130}$Te, ^{133}Cs, ^{132}Ba, $^{136,\ 138}$Ce, ^{151}Eu, ^{164}Dy, ^{181}Ta, ^{184}W, ^{187}Re, ^{190}Os, ^{191}Ir, ^{196}Pt, ^{196}Hg (n,γ),E=thermal,0.2-2.8 MeV; ^{92}Mo(p,γ),E=1.8-7.4 MeV; analyzed σ(capture) isomer ratio vs E. Statistical theory.

Keynumber: 1980WA20

Reference: Acta Phys.Austr. 52, 23 (1980)

Authors: M.Wagner, H.Warhanek

Title: Activation Measurements on Neutron Capture Cross Sections at 14.6 MeV and a Critical Survey of Such Data in the Literature

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{75}As, ^{81}Br, ^{96}Zr, ^{100}Mo, ^{104}Ru, ^{115}In, ^{123}Sb, ^{133}Cs, ^{141}Pr, ^{181}Ta, ^{187}Re(n,γ),E=14.6 MeV; measured σ; deduced no shell effects. Activation technique.

Keynumber: 1980PIZN

Coden: CONF Kiev(Neutron Physics) Proc,Part3,P270,Pisanko

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

Keynumber: 1980LI07

Reference: Nucl.Phys. A337, 401 (1980)

Authors: H.I.Liou, R.E.Chrien, J.Kopecky, J.A.Konter

Title: Study of the ^{45}Sc(n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(polarized n,γ), (n,γ),E $\approx$ 0.0253 eV,E=0.14-7.65 eV,460.6,1060.4,3290,4330 eV; measured Eγ,Iγ,γ-CP; deduced B(n). ^{46}Sc deduced resonances, J,multipolarity,γ strength function. Oriented,unoriented targets.

Keynumber: 1979BUZS

Reference: INDC(YUG)-6/L (1979)

Authors: M.Budnar, F.Cvelbar, E.Hodgson, A.Hudoklin, V.Ivkovic, A.Likar, M.V.Mihailovic, R.Martincic, M.Najzer, A.Perdan, M.Potokar, V.Ramsak

Title: Prompt γ-Ray Spectra and Integrated Cross Sections for the Radiative Capture of 14 MeV Neutrons for 28 Natural Targets in the Mass Region from 12 to 208

Keyword abstract: NUCLEAR REACTIONS Mg, ^{27}Al,Si, ^{31}P,S,Ca, ^{45}Sc, ^{51}V,Cr, ^{55}Mn,Fe,

^{59}Co,Cu,Se,Br,Sr, ^{89}Y,In,Sb, ^{127}I,Ba, ^{141}Pr, ^{165}Ho, ^{181}Ta,W,Tl,Pb, ^{209}Bi(n,γ),E=14.6 MeV; measured σ(Eγ).

Keynumber: 1979AG02
Reference: J.Phys.Soc.Jpn. 46, 1 (1979)
Authors: H.M.Agrawal, M.L.Sehgal
Title: Statistical Theory Calculations of Neutron-Capture Cross-Sections at 24 keV
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{55}Mn, $^{63, 65}$Cu, $^{69, 71}$Ga, ^{75}As, $^{79, 81}$Br, ^{80}Se, ^{85}, ^{87}Rb, ^{89}Y, ^{93}Nb, ^{96}Zr, $^{98, 100}$Mo, $^{107, 109}$Ag, ^{108}Pd, ^{114}Cd, ^{115}In, ^{127}I, ^{133}Cs, ^{138}Ba, ^{139}La, $^{140, 142}$Ce, ^{141}Pr, $^{152, 154}$Sm, $^{158, 160}$Gd, ^{164}Dy, ^{165}Ho, ^{170}Er, ^{175}Lu, ^{180}Hf, ^{181}Ta, $^{184, 186}$W, $^{185, 187}$Re, ^{197}Au, ^{202}Hg, ^{208}Pb, ^{209}Bi, ^{232}Th(n,γ),E=24 keV; calculated σ; deduced ratio of average $\Gamma\gamma$ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

Keynumber: 1978LIZT
Coden: JOUR BAPSA 23 636 KL9,Liou
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E $\approx$ th,0.46,1.06,3.30,4.33 keV; measured Eγ,absolute Iγ; deduced Q. ^{46}Sc deduced levels,J,λ.

Keynumber: 1978LIZF
Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No46,Liou
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal-4.3 keV; measured σ(Eγ). ^{46}Sc levels deduced J,π,$\Gamma\gamma$(E1),$\Gamma\gamma$(M1),B(n),γ-strength function.

Keynumber: 1978LIYZ
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P672,Liou
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal,3.29,4.33 keV; measured Eγ,Iγ. ^{46}Sc resonances deduced $\Gamma\gamma$ for E1,M1 transitions,neutron binding energy.

Keynumber: 1978KOZJ
Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No43,Kopecky
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(polarized n,γ),E=th; measured CP. ^{46}Sc levels deduced J,π,δ,mixing parameter α.

Keynumber: 1978KOYU
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P662,Kopecky
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(polarized n,γ),E not given; measured γ-ray CP. ^{46}Sc resonances deduced J,π.

Keynumber: 1978ALZK
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P535,Allen
Keyword abstract: NUCLEAR REACTIONS ^{40}Ca, ^{45}Sc, $^{54, 56, 57}$Fe(n,γ),E=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, $^{54, 56, 57}$Fe(n,γ); 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: 1977LIZZ

Reference: Bull.Am.Phys. 22, No.1, 53, DH3 (1977)

Authors: H.I.Liou, R.E.Chrien, K.Kobayashi, R.C.Block

Title: Total Neutron Cross Section and Gamma Ray Spectroscopy of ^{45}Sc

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=th-4 keV; measured σ(E,Eγ). ^{46}Sc levels deduced J,π.

Keynumber: 1977KE20

Reference: Aust.J.Phys. 30, 605 (1977)

Authors: M.J.Kenny, B.J.Allen, R.L.Macklin

Title: Resonant Neutron Capture in ^{45}Sc below 100 keV

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=2.5-100 keV; measured σ(E,Eγ). ^{46}Sc deduced neutron resonances,parameters.

Keynumber: 1977CHZC

Coden: REPT BNL-2205,R E Chrien

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=400 eV-22 keV; measured total σ(E,Eγ); deduced incompatibility with postulate that a J=4 bound state dominates thermal scattering.

Keynumber: 1976AL04

Reference: Phys.Lett. 61B, 161 (1976)

Authors: B.J.Allen, M.J.Kenny, R.F.Barrett, K.H.Bray

Title: Neutron Capture Mechanism in ^{45}Sc and ^{139}La

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{139}La(n,γ),E=fast; analyzed reaction mechanism.

Keynumber: 1975MA19

Reference: Z.Phys. A272, 273 (1975)

Authors: W.Mannhart

Title: Messung von thermischen Aktivierungs-Wirkungsquerschnitten mit hoher Genauigkeit

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{115}In, ^{139}La, ^{179}, ^{180}Hf(n,γ),E=thermal; measured σ(Eγ).

Keynumber: 1974DIZZ

Coden: JOUR ZEPYA 265 No5 abstracts (Dilg)

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{51}V, ^{63}, ^{65}Cu, ^{103}Rh(n,γ); measured σ(E).

Keynumber: 1974CO23

Reference: Nucl.Instrum.Methods 116, 251 (1974)

Authors: A.H.Colenbrander, T.J.Kennett

Title: The Application of a Statistical Description for Complex Spectra to the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{45}Sc, ^{55}Mn, ^{59}Co, ^{63}Cu, ^{75}As, ^{103}Rh, ^{109}Ag, ^{115}In, ^{133}Cs, ^{185}Re, ^{197}Au, ^{203}Tl(n,γ); measured Eγ,Iγ. ^{28}Al, ^{46}Sc, ^{56}Mn, ^{60}Co, ^{64}Cu, ^{76}As, ^{104}Rh, ^{110}Ag, ^{116}In, ^{134}Cs, ^{186}Re, ^{198}Au, ^{204}Tl deduced nuclear temperature,level densities.

Keynumber: 1974CO22

Reference: Nucl.Instrum.Methods 116, 237 (1974)

Authors: A.H.Colenbrander, T.J.Kennett
Title: The Realization of a Statistical Description for Complex Spectra
Keyword abstract: NUCLEAR REACTIONS ^{103}Rh, ^{45}Sc(n,γ); measured Eγ,Iγ, deduced method of analyzing spectra.

Keynumber: 1973HE15
Reference: Z.Phys. 258, 315 (1973)
Authors: R.Henkelmann
Title: Low Energy Gamma Rays from Thermal Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{59}Co,Cu,Se,In,La, ^{141}Pr,Nd,Sm,Eu,Gd, ^{159}Tb,Dy, ^{165}Ho,Er, ^{169}Tm,Lu,Hg(n,γ); measured Eγ,Iγ.

Keynumber: 1972SE19
Reference: Nucl.Instrum.Methods 105, 301 (1972)
Authors: H.Seyfarth, A.M.Hassan, B.Hrastnik, P.Gottel, W.Delang
Title: Efficiency Determination for Some Standard Type Ge(Li) Detectors for Gamma-Rays in the Energy Range from 0.04 to 11 MeV
Keyword abstract: NUCLEAR REACTIONS ^{39}K, ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ. ^{40}K, ^{46}Sc deduced transitions.

Keynumber: 1972DEZG
Reference: Contrib.Conf.Nucl.Structure Study with Neutrons, Budapest, p.112 (1972)
Authors: W.Delang, P.Gottel, H.Seyfarth
Title: Gamma Spectroscopic Investigations of ^{46}Sc by the Reaction ^{45}Sc(n,γ)^{46}Sc
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ,$\gamma\gamma$-coin. ^{46}Sc deduced levels,J,π,γ-mixing.

Keynumber: 1971VAZB
Coden: CONF Legnaro(1f$_{7/2}$ Nuclei),P377

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ), ^{45}Sc(d,pγ), ^{47}Ti(d, ^{3}He), surveyed data. ^{46}Sc deduced levels,J,π,γ-branching.

Keynumber: 1971DEXX
Reference: JUL-790-NP (1971)
Authors: W.Delang
Title: Eine zweidimensionale Koinzidenzapparatur zur Messung von $\gamma\gamma$-Winkelkorrelationen nach Neutroneneinfang und experimentelle Untersuchungen der neiderenergetischen Anregungszustande im ^{46}Sc mit Hilfe der Reaktion ^{45}Sc(n,γ)^{46}Sc
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ,$\gamma\gamma$-coin,$\gamma\gamma$(θ); deduced Q. ^{46}Sc deduced levels,J,π,γ-branching.

Keynumber: 1971DEXS
Coden: REPT JUL-790-WP, W Delang,8/16/72
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ,$\gamma\gamma$-coin,$\gamma\gamma$(θ); deduced Q. ^{46}Sc deduced levels,J,π,γ-branching.

Keynumber: 1970RA02
Reference: Aust.J.Phys. 23, 255 (1970)

Authors: B.B.V.Raju, B.M.Spicer

Title: The Low-Lying Odd Parity States of ^{46}Sc

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ,Iγ,$\gamma\gamma$-coin,$\gamma\gamma(\theta)$. ^{46}Sc deduced rotational structure,B(EL),γ-mixing.

Keynumber: 1969BOZU

Reference: Proc.Intern.Symp.Neutron Capture Gamma-Ray Spectroscopy, Studsvik, Intern.At.En.Agency, Vienna, p.15 (1969)

Authors: H.H.Bolotin

Title: Thermal-Neutron Capture Gamma-Gamma Coincidence Studies and Techniques

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{63}Cu, ^{176}Lu, ^{209}Bi(n,γ),E=thermal; measured $\gamma\gamma$-coin. ^{46}Sc, ^{64}Cu, ^{177}Lu, ^{210}Bi deduced levels,J,π,γ-branching.

Keynumber: 1968SM10

Reference: Nucl.Instr.Methods 60, 103 (1968)

Authors: A.I.Smirnov, V.A.Shaburov, V.L.Alexeyev, D.M.Kaminker, A.S.Rylnikov, O.I.Sumbayev

Title: A Device for Precise Measurements of Radiation Energy from the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ),E=thermal; measured Eγ. ^{46}Sc deduced transitions. Crystal spectrometer.

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}Li, ^{7}Li, ^{9}Be, ^{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}Pb(n,γ), E = thermal; measured Eγ; 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}Be, ^{45}Sc, Fe, Ge, Zr(n,γ), E= thermal; measured Eγ, Iγ; deduced Q. ^{10}Be, ^{46}Sc, ^{55}, ^{57}Fe, ^{71}, ^{73}, ^{74}Ge, ^{91}, ^{92}, ^{93}, ^{95}Zr deduced transitions. Ge(Li) detectors.

Keynumber: 1967CS01

Reference: Nucl.Phys. A95, 229(1967)

Authors: J.Csikai, G.Peto, M.Buczko, Z.Miligy, N.A.Eissa

Title: Radiative Capture Cross Sections for 14.7 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{30}Si, ^{31}P, ^{45}Sc, ^{48}Ca, ^{50}Ti, ^{51}V, ^{89}Y, ^{123}Sb, ^{139}La, ^{209}Bi(n,γ), E = 14.7 MeV; measured σ. ^{23}Na, ^{55}Mn, ^{103}Rh, ^{141}Pr, ^{165}Ho, ^{208}Pb(n,γ), E = 13.4-15.0 MeV; measured σ(E). ^{103}Rh(n,γ), E = 13.4-15.0 MeV; measured σ(g)/σ(M); deduced spin cutoff parameter. Enriched ^{30}Si, ^{48}Ca targets.

Keynumber: 1966VA13
Reference: Nucl.Phys. 84, 661 (1966)
Authors: P.Van Assche, U.Gruber, B.P.Maier, H.R.Koch, O.W.B.Schult
Title: Low-Energy Level Scheme of ^{46}Sc Deduced from the ^{45}Sc(n,γ)^{46}Sc Capture Gamma Rays
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc(n,γ)^{46}Sc,E = thermal; measured Eγ,Iγ. ^{46}Sc deduced levels, J, π. Natural target.