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67 reference(s) found :

Keynumber: [2001BE33](#)

Reference: Phys.Rev. C64, 015801 (2001)

Authors: J.Best, H.Stoll, C.Arlandini, S.Jaag, F.Kappeler, K.Wisshak, A.Mengoni, G.Reffo, T.Rauscher

Title: s-Process Branchings at ^{151}Sm , ^{154}Eu , and ^{163}Dy

Keyword abstract: NUCLEAR REACTIONS 151 , ^{153}Eu , 152 , ^{154}Sm , 164 , ^{170}Er (n, γ), E=spectrum; measured σ . 151 , 152 , 153 , 154 , ^{155}Eu (n, γ), E=1-2000 keV; calculated σ . Activation technique, comparisons with previous measurements. Astrophysical implications discussed.

Keynumber: 2000KA30

Reference: Appl.Radiat.Isot. 53, 825 (2000)

Authors: Ye.A.Karelin, V.N.Efimov, V.T.Filimonov, R.A.Kuznetsov, Yu.L.Revyakin, O.I.Andreev, I.Yu.Zhemkov, V.G.Bukh, V.M.Lebedev, Ye.N.Spiridonov

Title: Radionuclide Production using a Fast Flux Reactor

Keyword abstract: NUCLEAR REACTIONS ^{89}Y , 32 , ^{33}S , ^{35}Cl (n,p), ^{116}Sn , ^{151}Eu , ^{152}Gd (n, γ), E=reactor; measured yields; deduced irradiation parameters for isotope production in fast flux reactor.

Keynumber: 1999HO33

Reference: Pure Appl.Chem. 71, 2309 (1999)

Authors: N.E.Holden

Title: Temperature Dependence of the Westcott g-Factor for Neutron Reactions in Activation Analysis (Technical Report)

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{113}Cd , ^{115}In , ^{135}Xe , ^{148}Pm , 149 , ^{151}Sm , 151 , 152 , 153 , 154 , ^{155}Eu , 155 , ^{157}Gd , ^{164}Dy , 175 , ^{176}Lu , ^{177}Hf , ^{182}Ta , 185 , ^{187}Re , ^{197}Au , 231 , ^{233}Pa , 235 , ^{238}U (n, γ), E=low; calculated Westcott g-factors vs temperature.

Keynumber: 1999GEZY

Reference: INDC(CPR)-048/L, p.35 (1999)

Authors: Z.Ge

Title: Theoretical Calculations of All Reactions for n + ^{151}Eu , ^{153}Eu , ^{154}Eu and ^{155}Eu in $E_n = 0.001 \vartheta$ 20 MeV

Keyword abstract: NUCLEAR REACTIONS ^{151}Eu (n,n'), (n, γ), (n,2n), (n,3n), (n,p), (n,np), (n,d), (n,t), (n, α), (n,np), ^{153}Eu (n, γ), (n,2n), (n, α), E<0 MeV; calculated σ . 151 , ^{155}Eu (n,n), E=4.5-11.5 MeV; calculated $\sigma(\theta)$. Comparison to data.

Keynumber: [1998TO24](#)

Reference: Phys.Rev. C58, 2851 (1998)

Authors: A.P.Tonchev, Yu.P.Gangrsky, A.G.Belov, V.E.Zhuchko

Title: Deformation on Isomeric Excitation of Eu Isotopes in (γ ,n) and (n, γ) Reactions

Keyword abstract: NUCLEAR REACTIONS 151 , ^{153}Eu (n, γ), E=thermal; 151 , ^{153}Eu (γ ,n), E=12-22 MeV; measured yields, isomeric ratios; deduced deformation effect. Activation technique.

Keynumber: 1998GR02

Reference: Yad.Fiz. 61, No 1, 29 (1998); Phys.Atomic Nuclei 61, 24 (1998)

Authors: O.T.Grudzevich

Title: Isomeric Ratios for Radiative Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , ^{80}Se , ^{89}Y , ^{79}Br , ^{85}Rb , ^{103}Rh , ^{151}Eu , ^{115}In , ^{187}Re (n,γ), E=0-14 MeV; analyzed isomer production ratios. Cascade-evaporation model analysis.

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}Sb , ^{123}Sb , ^{130}Ba , ^{133}Cs , ^{139}La , ^{140}Ce , ^{142}Ce , ^{146}Nd , ^{151}Eu , ^{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 $E\gamma$, $I\gamma$; deduced capture σ , resonance integral, least-squares fit parameters. Multi-element standard.

Keynumber: 1997BE67

Reference: Yad.Fiz. 60, No 11, 1940 (1997); Phys.Atomic Nuclei 60, 1773 (1997)

Authors: A.G.Belov, Yu.P.Gangrsky, V.E.Zhuchko, A.P.Tonchev

Title: Excitation of Isomeric States in (γ ,n) and (n, γ) Reactions on Eu Isotopes

Keyword abstract: NUCLEAR REACTIONS ^{151}Eu (n,γ), E=thermal; ^{151}Eu (γ,n), E=13-22

MeV bremsstrahlung; measured $E\gamma$, $I\gamma$, yields, isomeric ratios; deduced deformation effects. Activation technique.

Keynumber: 1994YA25

Reference: Nucl.Sci.Eng. 118, 249 (1994)

Authors: N.Yamamuro

Title: Activation Cross-Section Calculations on the Production of Long-Lived Radionuclides

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , ^{58}Ni , ^{62}Ni , ^{93}Nb , ^{92}Mo , ^{98}Mo , ^{107}Ag , ^{151}Eu , ^{185}Re (n,γ), ^{60}Ni , ^{63}Cu , ^{94}Mo , ^{158}Dy (n,p), ^{61}Ni , ^{92}Mo (n,np), ^{63}Cu , ^{66}Zn (n, α), ^{60}Ni , ^{64}Ni , ^{95}Nb , ^{94}Mo , ^{109}Ag , ^{151}Eu , ^{153}Eu , ^{159}Tb , ^{187}Re (n,2n), ^{95}Mo (n,3n), E \leq 20 MeV; calculated activation $\sigma(E)$.

Keynumber: 1994VI08

Reference: Bull.Rus.Acad.Sci.Phys. 58, 749 (1994)

Authors: I.N.Vishnevsky, V.A.Zheltonozhsky, S.V.Reshitko

Title: On Nature of γ -Radiation in (n γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{197}Au , ^{181}Ta , ^{151}Eu (n,γ), E=thermal,resonance; measured isomeric yield ratios. Activation techniques.

Keynumber: 1993YU04

Reference: Chin.J.Nucl.Phys. 15, No 1, 71 (1993)

Authors: W.Yu, H.Lu, W.Zhao

Title: Activation Cross Section Measurement for the Eu(n,γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{151}Eu , ^{153}Eu (n,γ), E=0.03-1.12 MeV; measured $\sigma(E)$.

Activation technique, ^{197}Au (n,γ) standard, comparison with evaluated data.

Keynumber: 1993VIZU

Reference: Program and Thesis, Proc.43rd Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Dubna, p.75 (1993)

Authors: I.N.Vishnevsky, V.A.Zheltonozhsky, S.V.Reshitko

Title: On Character of γ -Radiation in (n, γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{151}Eu , ^{181}Ta , ^{197}Au (n, γ), E=thermal; measured isomeric ratios, γ -spectra. ^{152}Eu , ^{182}Ta , ^{198}Au deduced transition feature.

Keynumber: 1990XI01

Reference: Nucl.Sci.Eng. 104, 277 (1990)

Authors: Z.Xiang, H.Xu, Y.Li, Y.Mu, S.Wang, J.Liu

Title: Fast Neutron Capture Cross Sections of Europium

Keyword abstract: NUCLEAR REACTIONS 151 , ^{153}Eu (n, γ), E \approx 0.5-1.5 MeV; measured capture σ (E). Optical model calculations. Gold standard.

Keynumber: 1990PI19

Reference: J.Radioanal.Nucl.Chem. 141, 393 (1990)

Authors: A.E.Pillay, C.Mboweni

Title: The Determination of Eu and Sm by Application of X-Ray Spectrometry to Isotope-Source Activation Analysis

Keyword abstract: NUCLEAR REACTIONS 152 , ^{154}Sm , 151 , ^{153}Eu (n, γ), E=thermal; measured delayed X-ray spectra. Thermalized beam from ^{252}Cf source.

Keynumber: 1990GA29

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 54, 1006 (1990); Bull.Acad.Sci.USSR, Phys.Ser. 54, No.5, 190 (1990)

Authors: V.I.Gavrilyuk, V.A.Zheltonozhsky, S.V.Reshitko, V.B.Kharlanov

Title: Measurement of the Isomeric Ratios for Nuclei with A >150

Keyword abstract: NUCLEAR REACTIONS, ICPND ^{151}Eu (n, γ), E=reactor; ^{151}Eu (α ,n), E=15.6-26.3 MeV; ^{184}W (p,n), E=3.8-6.7 MeV; ^{193}Ir (α ,n), E=16.4-23.5 MeV; measured residuals isomeric production σ ratios. Activation technique. Cascade-evaporation model.

Keynumber: 1989BA37

Reference: J.Radioanal.Nucl.Chem. 131, 457 (1989)

Authors: A.M.Barouni, L.Bakos, E.Papp Zemplen, G.Keomley

Title: Reactor Neutron Activation Analysis followed by Characteristic X-Ray Spectrometry

Keyword abstract: NUCLEAR REACTIONS ^{74}Se (n,p), ^{114}Cd , ^{151}Eu (n, γ), E=reactor; measured X-ray spectra following residue decay.

Keynumber: 1987MA02

Reference: Nucl.Sci.Eng. 95, 189 (1987)

Authors: R.L.Macklin, P.G.Young

Title: Neutron Capture Cross Sections of ^{151}Eu and ^{153}Eu from 3 to 2200 keV

Keyword abstract: NUCLEAR REACTIONS 151 , ^{153}Eu (n, γ), E=3-2200 keV; measured capture $\langle\sigma(E)\rangle$ deduced optical model parameters, Maxwellian σ at kT=30 keV. Enriched targets.

Keynumber: 1985VO15

Reference: Z.Phys. A322, 669 (1985)

Authors: T.von Egidy, H.G.Borner, F.Hoyer

Title: Cross Sections and γ -Rays from Multiple Neutron Capture in ^{151}Eu

Keyword abstract: NUCLEAR REACTIONS 152 , ^{151}Eu (n, γ), E=thermal; measured capture E γ , I γ .

^{151}Eu deduced capture σ , Westcott (g-factors). $^{153}, ^{152}\text{Eu}$ deduced levels, J, π , capture σ , Westcott (g-factors), neutron binding energies. $^{152}, ^{153}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. $^{153}, ^{154}\text{Gd}$ deduced neutron binding energies.

Keyword abstract: RADIOACTIVITY $^{152}, ^{152m}\text{Eu}(\text{EC})$, (β^+), (β^-) [from $^{151}\text{Eu}(n,\gamma)$, E=thermal]; measured $E\gamma, I\gamma$.

Keynumber: 1984WA22

Reference: Chin.J.Nucl.Phys. 6, 286 (1984)

Authors: Wang Xinlin, Li Xiaodi, Du Hongshan

Title: Measurement of Relative Intensities of Gamma-Rays from the Decay of ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E not given; measured $E\gamma, I\gamma$.

Keyword abstract: RADIOACTIVITY $^{152}\text{Eu}(\beta^-)$, (β^+), (EC) [from $^{151}\text{Eu}(n,\gamma)$]; measured $E\gamma, I\gamma$.

Keynumber: 1981BEZC

Reference: NEANDC(E)-222U, Vol.V, p.5 (1981)

Authors: H.Beer, F.Kappeler, G.Reffo

Title: Capture Cross Section Measurements on Xe, Sm, Eu and Gd-Isotopes with the Activation Method

Keyword abstract: NUCLEAR REACTIONS $^{124}, ^{132}, ^{134}\text{Xe}$, ^{152}Sm , ^{151}Eu , $^{152}, ^{158}, ^{160}\text{Gd}(n,\gamma)$, E=25 keV; measured σ (capture). Activation technique. ^{197}Au standard.

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 , $^{68}, ^{70}\text{Zn}$, $^{74}, ^{76}\text{Ge}$, $^{80}, ^{82}\text{Se}$, ^{84}Kr , ^{85}Rb , ^{84}Sr , ^{89}Y , ^{103}Rh , $^{108}, ^{110}\text{Pd}$, ^{109}Ag , ^{114}Cd , $^{113}, ^{115}\text{In}$, $^{112}, ^{120}, ^{122}\text{Sn}$, ^{121}Sb , $^{120}, ^{126}, ^{128}, ^{130}\text{Te}$, ^{133}Cs , ^{132}Ba , $^{136}, ^{138}\text{Ce}$, ^{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; $^{92}\text{Mo}(p,\gamma)$, E=1.8-7.4 MeV; analyzed σ (capture) isomer ratio vs E.

Statistical theory.

Keynumber: 1979MIZR

Reference: NEANDC(J)-61/U, p.2 (1979)

Authors: M.Mizumoto, A.Asami, Y.Nakajima, Y.Kawasaki, T.Fuketa, H.Takekoshi

Title: Average Neutrons Capture Cross Sections of ^{151}Eu and ^{153}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}(n,\gamma)$, E=3-100 keV; measured σ . Liquid scintillation detector.

Keynumber: 1979MI16

Reference: J.Nucl.Sci.Technol.(Tokyo) 16, 711 (1979)

Authors: M.Mizumoto, A.Asami, Y.Nakajima, Y.Kawasaki, T.Fuketa, H.Takekoshi

Title: Average Neutron Capture Cross Sections of ^{151}Eu and ^{153}Eu from 3 to 100 keV

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}(n,\gamma)$, E=3-100 keV; measured average $\sigma(E)$. Strength function analysis.

Keynumber: 1979AN19

Reference: Nucl.Phys. A325, 317 (1979)

Authors: W.Andrejtscheff, K.D.Schilling

Title: Transition Probabilities and Deformations in the Doubly Odd Nucleus ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=thermal; measured $\gamma\gamma(t)$. ^{152}Eu levels deduced $T_{1/2}$, $B(\lambda)$, β . Enriched target. Plastic scintillator, Ge(Li) detector.

Keynumber: 1978VOZP

Reference: ZAED-M-14 (1978)

Authors: T.von Egidy, W.Kaiser, W.Mampe, C.Hillenbrand, W.Stoffl, R.G.Lanier, K.Muhlbauer, O.W.B.Schult, H.R.Koch, H.A.Baader, R.L.Mlekodaj, R.K.Sheline, E.B.Shera, J.Ungrin, P.T.Prokofjev, L.I.Simonova, M.K.Balodis, H.Seyfarth, B.Kardon, W.Delang, P.Gottel, D.Breitig, W.R.Kane, R.F.Casten, H.J.Scheerer, P.Glassl, E.Huenges, M.Loffler, H.Rosler, H.K.Vonach

Title: Nuclear Levels in ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=thermal,resonance; measured $E\gamma, I\gamma, I$ (ce), $\gamma\gamma$ -coin. $^{153}\text{Eu}(d,t)$, E=12 MeV; $^{153}\text{Eu}(p,d)$, E=18 MeV; measured σ . ^{152}Eu deduced levels, $J, \pi, T_{1/2}$, ICC, Nilsson configurations. Magnetic electron spectrometer, curved crystal spectrometer, Ge(Li), Si(Li) detectors, magnetic spectrographs. Enriched targets.

Keynumber: 1978SIZT

Coden: CONF BNL(Neutron Capt γ -Ray Spectr),Contrib,No72,Simic

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=50-150 keV; measured $I\gamma, \gamma\gamma$ -coin. ^{152}Eu deduced levels, γ -branching.

Keynumber: 1978SIZJ

Coden: CONF Brookhaven(Neutron Capt γ -Ray Spectr),Proc,P751,Simic

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=thermal; measured $\gamma\gamma(t), E\gamma, I\gamma$. ^{152}Eu deduced levels.

Keynumber: 1977KO40

Reference: Yad.Fiz. 26, 947 (1977); Sov.J.Nucl.Phys. 26, 500 (1977)

Authors: V.N.Kononov, B.D.Yurlov, E.D.Poletaev, V.M.Timokhov

Title: Fast-Neutron Capture Cross Sections for Indium, Tantalum, Gold, Samarium, and Europium

Keyword abstract: NUCLEAR REACTIONS ^{115}In , ^{181}Ta , ^{197}Au , ^{147}Sm , ^{149}Sm , ^{151}Eu , ^{153}Eu (n,γ), E=5-350 keV; measured $\sigma(E)$.

Keynumber: 1977ANZD

Coden: CONF Tokyo (Nucl Structure), Proc, Vol1, P388, Andrejtscheff

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$; measured $\gamma\gamma(t)$. ^{152}Eu levels deduced $T_{1/2}$.

Keynumber: 1977ANZC

Reference: Intern.Symp.High-Spin States and Nuclear Structure, Dresden, p.35 (1977); ZFK-336 (1977)

Authors: W.Andrejtscheff, K.D.Schilling

Title: Nonosecond Isomers in the Doubly-Odd N = 89 Nucleus ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$; measured $E\gamma, I\gamma, \gamma\gamma$ -coin, $\gamma\gamma(t)$. ^{152}Eu deduced levels, $T_{1/2}$.

Keynumber: 1977ANZA

Coden: REPT INDC(SEC)-61/LN,P33,Andrejtscheff

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$; measured $E\gamma, I\gamma(t)$. ^{152}Eu deduced levels, $T_{1/2}$.

Keynumber: 1976WI06

Reference: Nucl.Sci.Eng. 60, 53 (1976)

Authors: J.F.Widder

Title: Neutron-Capture Cross Sections of the Europium and Lutetium Isotopes from 0.01 to 10 eV

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}$, $^{175}, ^{176}\text{Lu}(n,\gamma)$, $E=0.01-10$ eV; measured $\sigma(E, E\gamma)$.

Keynumber: 1976VOZR

Coden: CONF Baku p102

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, (d,p), $^{153}\text{Eu}(p,d)$, (d,t), E not given; measured $E\gamma, I\gamma, \sigma$. ^{152}Eu deduced levels, J, π, γ -multipolarity, state structure.

Keynumber: 1976SEZF

Coden: REPT KFA 1975 Ann,P97,Seyfarth

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$; measured $\gamma\gamma$ -coin. ^{152}Eu deduced levels.

Keynumber: 1976MO36

Reference: Ann.Nucl.Energy 3, 399 (1976)

Authors: M.C.Moxon, D.A.J.Endacott, J.E.Jolly

Title: The Neutron Capture Cross-Section of ^{151}Eu and ^{153}Eu in the Energy Range 0.1 to 100 keV

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}(n,\gamma)$, $E=0.1-100$ keV; measured $\sigma(E)$.

Keynumber: 1975VOZV

Coden: CONF Petten(Neutron Capture γ -ray Spectr), Proc P532

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, $^{153}\text{Eu}(d,t)$, (p,d), $^{151}\text{Eu}(d,p)$; measured $\sigma, E\gamma, I\gamma, \gamma\gamma$ -coin, $\gamma(t)$. ^{152}Eu deduced levels, $K, J, \pi, T_{1/2}$.

Keynumber: 1975HOZV

Coden: JOUR BAPSA 20 172 IB14

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , ^{103}Rh , $^{151}, ^{153}\text{Eu}(n,\gamma)$, $E=20$ eV-90 keV; measured σ .

Keynumber: 1975ANZV

Coden: JOUR BAPSA 20 173 IB15

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}$, $^{181}\text{Ta}(n,\gamma)$; measured σ .

Keynumber: 1974VOZR

Reference: Contrib.Int.Conf.Neutron Capture Gamma Ray Spectroscopy and Related Topics, 2nd, Petten, p.241 (1974)

Authors: T.von Egidy, W.Kaiser, W.Mampe, R.G.Lanier, K.Muhlbauer, O.W.B.Schult, H.R.Koch, H.A.Baader, R.L.Mlekodaj, R.K.Sheline, E.B.Shera, J.Ungrin, P.T.Prokofjev, L.I.Simonova, H.Seyfarth, B.Kardon, W.Delang, P.Gottel, D.Breitig, W.R.Kane, R.F.Kasten, H.-J.Scheerer, P.Glassl, E.Huenges, M.Loffler, H.Rosler, H.K.Vonach, D.Rabenstein

Title: The Transitional Nucleus ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(\text{n},\gamma)$, (d,p), $^{153}\text{Eu}(\text{d,t})$, (p,d); measured not given.
 ^{152}Eu deduced isomer,levels,T_{1/2},J,π,λ.

Keynumber: 1974KNZR

Coden: REPT USNDC-11 P220

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , 151 , $^{153}\text{Eu}(\text{n},\gamma)$; measured σ.

Keynumber: 1974KNZO

Coden: REPT COO-3058-50 P8

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , 151 , $^{153}\text{Eu}(\text{n},\gamma)$,E=keV; measured σ.

Keynumber: 1974ERZW

Reference: KFA-IKP-10/74, p.299 (1974)

Authors: R.Ermer, W.Delang, P.Gottel, H.H.Guven, B.Hrastnik, O.W.B.Schult, H.Seyfarth

Title: Gamma Spectroscopic Investigations on Nuclear Structure after Thermal Neutron Capture

Keyword abstract: RADIOACTIVITY ^{182}Re ; measured $\gamma\gamma(\theta)$. ^{182}W deduced levels.

Keyword abstract: NUCLEAR REACTIONS ^{151}Eu , $^{98}\text{Mo}(\text{n},\gamma)$,E=thermal; measured Eγ,Iγ,γγ-coin.

^{152}Eu , ^{99}Mo deduced levels.

Keynumber: 1973RAXW

Coden: REPT COO-2176-20 P1

Keyword abstract: NUCLEAR REACTIONS Er, 152 , ^{154}Sm , 151 , ^{153}Eu , ^{232}U ,Fe,La,In,Ta,F,Mg,
Al,S,Cl,K,Ca(n,γ); measured σ(E). 153 , ^{155}Sm , 152 , ^{154}Eu , ^{233}U deduced resonances.

Keynumber: 1973KOYM

Reference: INDC(SEC)-35/L, p.195 (1973)

Authors: S.Koicki, V.Ajdacic, B.Lalovic, I.Slavic

Title: Gamma Rays from Thermal Neutron Capture on Eu¹⁵¹

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(\text{n},\gamma)$; measured Eγ,γ(t). ^{152}Eu deduced transitions.

Keynumber: 1973KNZO

Coden: REPT COO-3058-38 P2

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{105}Pd , 151 , $^{153}\text{Eu}(\text{n},\gamma)$; measured σ(E).

Keynumber: 1973KNZM

Coden: REPT COO-3058-44,P2

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , 151 , $^{153}\text{Eu}(\text{n},\gamma)$,E=4-65 keV; measured σ.

Keynumber: 1973KNZL

Coden: REPT COO-3058-39 P17 mf

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , 151 , ^{153}Eu , $^{103}\text{Rh}(\text{n},\gamma)$,E=20-100 eV; measured σ.

Keynumber: 1973HAYP

Coden: REPT EANDC(US)-186'U' P6

Keyword abstract: NUCLEAR REACTIONS 98 , ^{100}Mo , ^{109}Ag , 127 , ^{129}I , ^{139}La , 151 , ^{153}Eu , ^{159}Tb ,
 ^{169}Tm , $^{181}\text{Ta}(\text{n},\gamma)$; measured integral σ.

Keynumber: 1973BRZY

Coden: JOUR BAPSA 18 36,D Breitig,1/15/73

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$,E=resonance; measured $E\gamma, I\gamma$. ^{152}Eu deduced resonances,levels,J, π .

Keynumber: 1973BEYQ

Coden: REPT ANCR-1129 P6

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}(n,\gamma)$,E=reactor spectrum; measured σ .

Keynumber: 1972SCYT

Coden: CONF Teddington(Atomic Masses, Fund Constants),P123

Keyword abstract: NUCLEAR REACTIONS $^{107}, ^{109}\text{Ag}, ^{139}\text{La}, ^{150}\text{Sm}, ^{151}, ^{152}\text{Eu}, ^{155}, ^{157}\text{Gd}, ^{159}\text{Tb}, ^{168}, ^{171}, ^{174}\text{Yb}, ^{178}\text{Hf}, ^{181}, ^{182}\text{Ta}, ^{197}, ^{198}\text{Au}, ^{199}\text{Hg}, ^{232}\text{Th}(n,\gamma)$; measured $E\gamma, ^{108}, ^{110}\text{Ag}, ^{140}\text{La}, ^{151}\text{Sm}, ^{152}, ^{153}\text{Eu}, ^{156}, ^{158}\text{Gd}, ^{160}\text{Tb}, ^{169}, ^{172}, ^{175}\text{Yb}, ^{179}\text{Hg}, ^{182}, ^{183}\text{Ta}, ^{198}, ^{199}\text{Au}, ^{200}\text{Hg}, ^{233}\text{Th}$ deduced transitions.

Keynumber: 1972LA26

Reference: J.Phys.(London) A5, 1262 (1972)

Authors: A.Lakshmana Rao, J.Rama Rao

Title: Cross Sections and Isomer Ratios for Some Neutron Capture Reactions

Keyword abstract: NUCLEAR REACTIONS $^{116}\text{Cd}, ^{151}\text{Eu}(n,\gamma)$,E=25 keV; measured σ ,isomeric σ ratio; deduced spin cut-off parameters.

Keynumber: 1972LA15

Reference: Phys.Rev. C6, 572 (1972)

Authors: A.Lakshmana Rao, J.Rama Rao

Title: Isomer Ratios in (n,γ) Reactions at 25 keV

Keyword abstract: NUCLEAR REACTIONS $^{74}\text{Ge}, ^{79}\text{Br}, ^{80}\text{Se}, ^{85}\text{Rb}, ^{103}\text{Rh}, ^{121}\text{Sb}, ^{151}\text{Eu}, ^{164}\text{Dy}$ (n,γ) ,E=25 keV; measured σ ,isomeric ratio.

Keynumber: 1972DEXR

Coden: REPT NP-19666P46,W Delang

Keyword abstract: NUCLEAR REACTIONS $^{102}, ^{104}\text{Ru}, ^{151}\text{Eu}(n,\gamma)$; measured $E\gamma, ^{103}, ^{105}\text{Ru}, ^{152}\text{Eu}$ deduced levels.

Keynumber: 1971VOZP

Coden: CONF IPN(Orsay),Transition Nuclei,P235

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$; measured $E\gamma, I\gamma, I(\text{ce})$. $^{151}\text{Eu}(\text{d},\text{p})$, measured $\sigma(E_p, \theta)$. $^{153}\text{Eu}(\text{d},\text{t})$, measured $\sigma(E_t, \theta)$. ^{152}Eu deduced levels,J, π , γ -branching.

Keynumber: 1971RYZZ

Reference: Proc.Int.Conf.Chemical Nuclear Data, Measurements and Applications, Canterbury, England, M.L.Hurrell, Ed., Institution of Civil Engineers, London, p.139 (1971)

Authors: T.B.Ryves

Title: Thermal Neutron Capture Cross Section Measurements at the NPL

Keyword abstract: NUCLEAR REACTIONS $^{23}\text{Na}, ^{26}\text{Mg}, ^{27}\text{Al}, ^{30}\text{Si}, ^{37}\text{Cl}, ^{41}\text{K}, ^{50}\text{Ti}, ^{51}\text{V}, ^{58}\text{Fe}, ^{64}\text{Ni}, ^{63}, ^{65}\text{Cu}, ^{69}, ^{71}\text{Ga}, ^{75}\text{As}, ^{79}, ^{81}\text{Br}, ^{89}\text{Y}, ^{107}, ^{109}\text{Ag}, ^{115}\text{In}, ^{121}, ^{123}\text{Sb}, ^{127}\text{I}, ^{139}\text{La}, ^{151}\text{Eu}, ^{196}, ^{198}\text{Pt}$ (n,γ) ,E=thermal; measured σ .

Keynumber: 1971RYZX**Coden:** CONF Canterbury(Chem Nucl Data),P139,12/10/72**Keyword abstract:** NUCLEAR REACTIONS ^{23}Na , ^{26}Mg , ^{27}Al , ^{30}Si , ^{37}Cl , ^{41}K , ^{50}Ti , ^{51}V , ^{58}Fe , ^{64}Ni , 63 , ^{65}Cu , 69 , ^{71}Ga , ^{75}As , ^{79}Br , ^{81}Br , ^{89}Y , 107 , ^{109}Ag , ^{115}In , 121 , ^{123}Sb , ^{127}I , ^{139}La , ^{151}Eu , 196 , ^{198}Pt (n,γ), E=thermal; measured σ ; deduced resonance integrals.

Keynumber: 1971PRZW**Coden:** CONF Moscow(NuclSpectros,Structure) Abstr P98**Keyword abstract:** NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=th; measured $E\gamma, I(\text{ce})$. ^{152}Eu transitions deduced subshell ratios.

Keynumber: 1971PO08**Reference:** Nucl.Phys. A172, 489 (1971)**Authors:** F.Poortmans, I.Garlea, A.Fabry**Title:** Neutron Cross Sections for ^{151}Eu below 1 eV**Keyword abstract:** NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)^{152}\text{Eu}$, ^{152m}Eu ; En=0.02 eV-0.75 eV, thermal; measured $\sigma(nt), \sigma(act)$; deduced isomer yield ratios, Westcott g-factor. ^{152}Eu deduced negative energy resonance parameters. Natural targets.

Keynumber: 1971ORZZ**Reference:** Proc.Conf.Neutron Cross Sections and Technology, Knoxville, Tenn., 3rd, R.L.Macklin, Ed., Vol.1, p.127 (1971); CONF-710301 (1971)**Authors:** F.V.Orestano, F.Pistella**Title:** Cross Section Evaluations by Integral Measurements**Keyword abstract:** NUCLEAR REACTIONS ^{151}Eu , $^{175}\text{Lu}(n,\gamma)$, E < 0.63 eV; measured activation σ , resonance integral. ^{152}Eu deduced resonance parameters.

Keynumber: 1971HAXR**Coden:** REPT NCSAC-42,P61,G Hacken,5/19/72**Keyword abstract:** NUCLEAR REACTIONS 152 , ^{154}Sm , 151 , ^{153}Eu , 154 , 158 , ^{160}Gd , 166 , 167 , 168 , ^{170}Er , 168 , 170 , 171 , 172 , 174 , ^{176}Yb , ^{175}Lu , 182 , 183 , 184 , $^{186}\text{W}(n,\gamma)$, measured capture resonance integrals.

Keynumber: 1970RAZU**Coden:** CONF Madurai(Nucl,Solid State Phys),Vol2,P19**Keyword abstract:** NUCLEAR REACTIONS ^{74}Ge , ^{85}Rb , ^{110}Pd , ^{116}Cd , ^{121}Sb , ^{124}Sn , ^{151}Eu , ^{196}Pt (n,γ), E=25 keV; measured σ , isomeric σ ratios.

Keynumber: 1970MI11**Reference:** Nucl.Phys. A155, 21 (1970)**Authors:** W.Michaelis**Title:** Thermal Neutron Capture in ^{151}Eu **Keyword abstract:** NUCLEAR REACTIONS $^{151}\text{Eu}(n,\gamma)$, E=th; measured $E\gamma, I\gamma$. ^{152}Eu deduced transitions. Enriched target. Ge(Li) detector.

Keynumber: 1970KA15**Reference:** Z.Naturforsch. 25a, 602 (1970)

Authors: W.Kaiser

Title: Untersuchungen Zum Niveauschema von ^{152}Eu mit Konversionselektronen nach Neutroneneinfang

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(\text{n},\gamma)$, E='slow'; measured $E\gamma$, I(ce). ^{152}Eu deduced levels, J, π, γ -mixing.

Keynumber: 1970GE05

Reference: Z.Phys. 235, 263 (1970)

Authors: A.Gerl, K.E.G.Lobner

Title: Half-Life of the 89.83 keV Level in ^{152}Eu

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(\text{n},\gamma)$, E=thermal; measured $\gamma\gamma$ -delay. ^{152}Eu level deduced $T_{1/2}$, hindrance factors.

Keynumber: 1968BO49

Reference: Yadern.Fiz. 7, 1161 (1968); Soviet J.Nucl.Phys. 7, 694 (1968)

Authors: A.V.Borovikov, V.S.Gvozdev, G.D.Porsev

Title: Low-Lying Excited States of Eu 152

Keyword abstract: NUCLEAR REACTIONS $^{151}\text{Eu}(\text{n},\gamma)$, E=thermal; measured I(ce), cece-coin, cece-delay. ^{152}Eu deduced levels, γ -multipolarity.

Keynumber: 1967SI16

Reference: J.Inorg.Nucl.Chem. 29, 2671 (1967)

Authors: G.H.E.Sims, D.G.Juhnke

Title: The Thermal Neutron Cross-Sections and Resonance Integrals of the Europium Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{151}, ^{153}\text{Eu}(\text{n},\gamma)$, E=thermal; measured σ ; deduced resonance integrals.
