

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

55 reference(s) found :

Keynumber: 2001HAZR

Reference: INDC(CPR)-053/L, p.44 (2001)

Authors: Y.Han, Q.Shen, B.Yu, J.Zhang

Title: Calculation and Recommendation of $n + ^{175,176}\text{Lu}$ Reaction

Keyword abstract: NUCLEAR REACTIONS Lu, $^{175,176}\text{Lu}(n,X)$, (n,γ) , (n,p) , (n,α) , (n,xn) , $E < 20$ MeV; calculated σ . Comparisons with data.

Keynumber: 1999SU03

Reference: Yad.Fiz. 62, No 1, 24 (1999); Phys.Atomic Nuclei 62, 19 (1999)

Authors: A.M.Sukhovoi, V.A.Khitrov

Title: Experimental Estimate of the Density of Levels in a Heavy Nucleus That Are Excited in (n,γ) Reactions at Excitation Energies of 3 to 4 MeV

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{123}Te , ^{145}Nd , ^{149}Sm , ^{155}Gd , ^{162}Dy , ^{163}Dy , ^{167}Er , ^{173}Yb , ^{174}Yb , ^{177}Hf , ^{178}Hf , ^{180}Hf , ^{187}Os , ^{189}Os , ^{195}Pt , ^{199}Hg , ^{127}I , ^{159}Tb , ^{165}Ho , ^{169}Tm , ^{175}Lu , ^{181}Ta , ^{191}Ir , ^{197}Au , ^{124}Te , ^{182}W , ^{185}W ; $E = \text{thermal}$; analyzed $I\gamma$; deduced non-exponential level densities.

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}Sm , ^{151}Sm , ^{151}Eu , ^{152}Eu , ^{153}Eu , ^{154}Eu , ^{155}Eu , ^{155}Gd , ^{164}Dy , ^{175}Lu , ^{177}Hf , ^{182}Ta , ^{185}Re , ^{187}Re , ^{197}Au , ^{231}Pa , ^{233}Pa , ^{235}U , ^{238}U ; (n,γ) , $E = \text{low}$; calculated Westcott g-factors vs temperature.

Keynumber: 1999DO03

Reference: Phys.Rev. C59, 492 (1999)

Authors: C.Doll, H.G.Borner, S.Jaag, F.Kappeler, W.Andrejtscheff

Title: Lifetime Measurement in ^{176}Lu and Its Astrophysical Consequences

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, $E = \text{reactor}$; measured Doppler-broadened $E\gamma$, $I\gamma$. ^{176}Lu level deduced $T_{1/2}$. Gamma-ray induced Doppler broadening technique. Astrophysical implications discussed.

Keynumber: 1999BO14

Reference: Yad.Fiz. 62, No 5, 892 (1999); Phys.Atomic Nuclei 62, 832 (1999)

Authors: S.T.Boneva, E.V.Vasilieva, L.I.Simonova, V.A.Bondarenko, A.M.Sukhovoi, V.A.Khitrov

Title: (n,γ) Reactions in Heavy Nuclei: Manifestations of nuclear structure at excitation energies up to the neutron binding energy

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{123}Te , ^{127}I , ^{134}Ba , ^{136}Ba , ^{137}Ba , ^{138}Ba , ^{139}La , ^{142}La , ^{143}Nd , ^{145}Nd , ^{149}Sm , ^{155}Gd , ^{157}Gd , ^{159}Tb , ^{162}Tb , ^{163}Tb , ^{164}Dy , ^{165}Ho , ^{167}Er , ^{169}Tm , ^{173}Yb , ^{174}Yb , ^{176}Yb , ^{175}Lu , ^{177}Lu , ^{178}Lu , ^{179}Lu , ^{180}Hf , ^{181}Ta , ^{182}W , ^{186}W , ^{187}Os , ^{189}Os , ^{191}Ir , ^{195}Pt , ^{197}Au , $^{199}\text{Hg}(n,\gamma)$, E not given; analyzed two-photon γ cascade data; deduced structure effects.

Keynumber: 1998KH14

Reference: Fizika(Zagreb) B7, 243 (1998)

Authors: V.A.Khitrov, A.M.Sukhovoij, J.Honzatko, I.Tomandl, G.Georgiev

Title: Main Peculiarities of the Cascade γ -Decay Process of the ^{176}Lu Compound Nucleus

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma$ -coin. ^{176}Lu deduced transitions,two-step cascade intensities,vibrational excitations,level density features.

Keynumber: 1997SU29

Reference: Bull.Rus.Acad.Sci.Phys. 61, 1611 (1997)

Authors: A.M.Sukhovoi, V.A.Khitrov

Title: Cascade Gamma Decay of the Compound State of Heavy Nucleus as Seen Experimentally

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}, ^{127}\text{I}, ^{123}\text{Te}, ^{134}, ^{136}, ^{137}, ^{138}\text{Ba}, ^{142}, ^{143}, ^{145}\text{Nd}, ^{149}\text{Sm}, ^{155}, ^{157}\text{Gd}, ^{159}\text{Tb}, ^{165}\text{Ho}, ^{162}, ^{163}, ^{164}\text{Dy}, ^{167}\text{Er}, ^{169}\text{Tm}, ^{173}, ^{174}, ^{176}\text{Yb}, ^{175}, ^{176}\text{Lu}, ^{177}, ^{178}, ^{179}, ^{180}\text{Hf}, ^{195}\text{Pt}, ^{199}\text{Hg}, ^{181}\text{Ta}, ^{182}, ^{186}\text{W}, ^{191}\text{Ir}, ^{197}\text{Au}(n,\gamma), E=\text{thermal}$; analyzed γ spectra, $\gamma\gamma$ -coin. $^{114}\text{Cd}, ^{124}\text{Te}, ^{137}, ^{138}, ^{139}\text{Ba}, ^{146}\text{Nd}, ^{150}\text{Sm}, ^{156}, ^{158}\text{Gd}, ^{160}\text{Tb}, ^{164}\text{Dy}, ^{168}\text{Er}, ^{170}\text{Tm}, ^{174}\text{Yb}, ^{181}\text{Hf}, ^{196}\text{Pt}, ^{200}\text{Hg}, ^{182}\text{Ta}, ^{183}\text{W}, ^{192}\text{Ir}, ^{198}\text{Au}$ deduced two-quantum cascade intensities vs excitation energy,level density parameters,pairing features.

Keynumber: 1997KHZV

Reference: Proc.5th Intern.Seminar on Int.of Neutrons with Nuclei, Dubna, p.207 (1997)

Authors: V.A.Khitrov, A.M.Sukhovoi, J.Honzatko, I.Tomandl, G.Georgiev

Title: Cascade Gamma Decay of the $^{176,177}\text{Lu}$ Compound Nuclei

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma$ -coin,two-step cascade intensities. $^{176}, ^{177}\text{Lu}$ deduced level densities.

Keynumber: 1992PE13

Reference: Nucl.Instrum.Methods Phys.Res. A321, 259 (1992)

Authors: P.Petkov, W.Andrejtscheff, S.Avramov

Title: Complex Time Distributions from Isomers in Cascade: A case in ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), E$ not given; measured γ -spectra time distribution. ^{176}Lu deduced isomers $T_{1/2}$.

Keynumber: [1991ZH12](#)

Reference: Phys.Rev. C44, 506 (1991)

Authors: W.R.Zhao, F.Kappeler

Title: Stellar Production Cross Section of ^{176m}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), E=25 \text{ keV}$; measured isomer partial σ ; deduced astrophysical implications. ^{176}Lu level deduced evidence for thermally induced deexcitation to ground state.

Keynumber: [1991KL02](#)

Reference: Phys.Rev. C44, 2801 (1991)

Authors: N.Klay, F.Kappeler, H.Beer, G.Schatz, H.Borner, F.Hoyer, S.J.Robinson, K.Schreckenbach, B.Krusche, U.Mayerhofer, G.Hlawatsch, H.Lindner, T.von Egidy, W.Andrejtscheff, P.Petkov

Title: Nuclear Structure of ^{176}Lu and Its Astrophysical Consequences. I. Level Scheme of ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), (n,e^-), E=\text{thermal}$; measured $E\gamma, I\gamma, I(ce), \gamma\gamma$ -coin. $^{175}\text{Lu}(d,p), Ed=20.118 \text{ MeV}$; measured proton spectra. ^{176}Lu deduced

levels,J, π ,T_{1/2},isomer,neutron separation energy.

Keynumber: 1989PE04

Reference: Nucl.Instrum.Methods Phys.Res. B40/41, 1205 (1989)

Authors: R.Pepelnik

Title: Sensitivities of High-Flux 14 MeV Neutron Activation Analysis

Keyword abstract: NUCLEAR REACTIONS ^{11}B , ^{16}O , ^{19}F , ^{20}Ne , ^{23}Na , ^{24}Mg , ^{27}Al , ^{28}Si , ^{34}S , ^{44}Ca , ^{51}V , ^{60}Ni , ^{75}As , $^{109}\text{Ag}(\text{n},\text{p})$, ^{31}P , ^{40}Ar , ^{55}Mn , ^{65}Cu , $^{93}\text{Nb}(\text{n},\alpha)$, ^{35}Cl , ^{45}Sc , ^{64}Zn , ^{71}Ga , ^{76}Ge , ^{80}Se , ^{79}Br , ^{86}Kr , ^{85}Rb , ^{90}Zr , ^{100}Mo , ^{96}Ru , ^{110}Pd , ^{124}Sn , ^{123}Sb , ^{130}Te , ^{136}Xe , ^{133}Cs , ^{138}Ba , ^{140}Ce , ^{141}Pr , ^{142}Nd , ^{144}Sm , ^{160}Gd , ^{159}Tb , ^{165}Ho , ^{164}Er , ^{169}Tm , ^{168}Yb , ^{181}Ta , ^{186}W , ^{198}Pt , ^{191}Ir , ^{197}Au , ^{203}Tl , $^{208}\text{Pb}(\text{n},2\text{n})$, Ti,Cr,Fe,Sr,Cd,Eu,Hf, $^{200}\text{Hg}(\text{n},\text{X})$, ^{59}Co , ^{103}Rh , ^{115}In , ^{127}I , ^{164}Dy , ^{175}Lu , ^{187}Re , ^{226}Ra (n,γ), ^{232}Th , $^{238}\text{U}(\text{n},\text{F})$, E=14 MeV; calculated analytical sensitivities. Activation analysis.

Keynumber: 1989DU03

Reference: Nucl.Instrum.Methods Phys.Res. A278, 484 (1989)

Authors: P.Durner, T.von Egidy, F.J.Hartmann

Title: Neutron-Capture Gamma Rays below 40 keV

Keyword abstract: NUCLEAR REACTIONS ^{27}Al , ^{39}K , ^{51}V , ^{127}I , ^{133}Cs , ^{159}Tb , ^{165}Ho , ^{169}Tm , ^{175}Lu , ^{181}Ta , ^{191}Ir , ^{197}Au , $^{232}\text{Th}(\text{n},\gamma)$, E=low; measured $E\gamma$, absolute $I\gamma$. ^{28}Al , ^{40}K , ^{52}V , ^{128}I , ^{134}Cs , ^{160}Tb , ^{166}Ho , ^{170}Tm , ^{176}Lu , ^{182}Ta , ^{192}Ir , ^{198}Au , ^{233}Th deduced transitions. Si-Li detector.

Keynumber: 1988GA05

Reference: J.Phys.(London) G14, Supplement S315 (1988)

Authors: M.A.Gardner, D.G.Gardner, R.W.Hoff

Title: The Impact of Calculated Photon-Induced Isomer Production in ^{176}Lu on Its use as a Stellar Chronometer and/or Thermometer

Keyword abstract: NUCLEAR REACTIONS 175 , $^{176}\text{Lu}(\text{n},\gamma)$, E \leq 2 MeV; calculated capture $\sigma(E)$. $^{175}\text{Lu}(\gamma,\text{n})$, $(\gamma,2\text{n})$, E=threshold-18 MeV; calculated photoneutron $\sigma(E)$. 176 , ^{176m}Lu deduced production, decay features. Stellar chronometer implications.

Keynumber: 1987BE53

Reference: Yad.Fiz. 46, 392 (1987)

Authors: F.Becvar, J.Honzatko, M.E.Montero-Cabrera, S.A.Telzhnikov, Huynh Thuong Hiep

Title: Study of Photon Strength Functions of ^{174}Yb and 176 , ^{177}Lu by Means of (n,γ) Reaction in Isolated Resonances

Keyword abstract: NUCLEAR REACTIONS ^{173}Yb , 175 , $^{176}\text{Lu}(\text{n},\gamma)$, E=reactor spectrum; measured $E\gamma$, $I\gamma$. ^{174}Yb , 176 , ^{177}Lu deduced γ - strength functions, E1 transition characteristics. Tof.

Keynumber: 1986IG01

Reference: Nucl.Phys. A457, 301 (1986)

Authors: M.Igashira, H.Kitazawa, M.Shimizu, H.Komano, N.Yamamuro

Title: Systematics of the Pygmy Resonance in keV Neutron Capture γ -Ray Spectra of Nuclei with N ≈ 82-126

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , ^{159}Tb , ^{165}Ho , ^{175}Lu , $^{197}\text{Au}(\text{n},\gamma)$, E=10-800 keV; measured $\sigma(E,E\gamma)$ versus θ ; deduced γ -ray strength functions. Natural targets.

Keynumber: 1986HO30

Reference: Radiat.Eff. 95, 119 (1986)

Authors: R.W.Hoff, D.G.Gardner, M.A.Gardner

Title: Reaction Cross-Section Calculations using New Experimental and Theoretical Level Structure Data for Deformed Nuclei

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, $^{237}\text{Np}(n,2n)$, E not given; calculated isomer production σ ratio. Modeling level structure technique.

Keyword abstract: NUCLEAR STRUCTURE ^{238}Np , ^{244}Am , ^{250}Bk , ^{160}Tb , ^{166}Ho , ^{170}Tm , ^{176}Lu , ^{182}Ta ; calculated levels, bandhead energies, rotational parameters, Gallagher-Moszkowski splittings. Modeling level structure technique.

Keynumber: 1985HO08

Reference: Nucl.Phys. A437, 285 (1985)

Authors: R.W.Hoff, R.F.Casten, M.Bergoffen, D.D.Warner

Title: Test of a Phenomenological Model of Odd-Odd Deformed Nuclei: An Arc study of ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, E=2.24 keV; measured $E\gamma, I\gamma$. ^{176}Lu deduced resonances, J, π , configuration, rotational bands. Average resonance capture technique. Phenomenological model.

Keynumber: 1984GAZZ

Reference: Bull.Am.Phys.Soc. 29, No.4, 637, AJ11 (1984)

Authors: D.G.Gardner, M.A.Gardner, R.W.Hoff

Title: The Necessity of Discrete-Level Modeling in Isomer Ratio Calculations for Neutron-Induced Reactions on Deformed Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{175}Lu , $^{241}\text{Am}(n,\gamma)$, ^{175}Lu , $^{237}\text{Np}(n,2n)$, E not given; calculated isomer to ground state production σ . Single-particle, rotational excitation based model level set.

Keynumber: 1984BEZB

Reference: Proc.Conf.Neutron Physics, Kiev, Vol.3, p.12 (1984)

Authors: F.Bechvarzh, Huynh Thuong Hiep, M.-E.Montero-Cabrera, S.Pospisil, S.A.Telzhnikov

Title:

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, E < 50 eV; measured γ -spectra; deduced no reduced Γ_n , partial $\Gamma\gamma$ correlation. ^{176}Lu deduced possible levels. Tof.

Keynumber: 1984BE34

Reference: Phys.Rev. C30, 464 (1984)

Authors: H.Beer, G.Walter, R.L.Macklin, P.J.Patchett

Title: Neutron Capture Cross Sections and Solar Abundances of ^{160}Dy , ^{161}Dy , ^{170}Yb , ^{171}Yb , ^{175}Lu , ^{176}Lu , and ^{176}Hf for the s-Process Analysis of the Radionuclide ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS ^{160}Dy , ^{161}Dy , ^{170}Yb , ^{171}Yb , ^{175}Lu , ^{176}Lu , $^{176}\text{Hf}(n,\gamma)$, E ≈ 3-500 keV; measured $\sigma(E), \gamma$ yields; deduced Maxwellian $\langle\sigma\rangle$, solar abundances, s-process temperature constraints. ^{176}Lu , ^{177}Lu , ^{177}Hf , ^{178}Hf , ^{161}Dy , ^{162}Dy , ^{171}Yb , ^{172}Yb deduced resonances, parameters, $(g\Gamma_n\Gamma\gamma/\Gamma)$, s-wave strength functions.

Keynumber: 1981AL17

Reference: J.Phys.(London) G7, 1271 (1981)

Authors: B.J.Allen, G.C.Lowenthal, J.R.de Laeter

Title: s-Process Branch at ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(\text{n},\gamma), \text{E} < 105 \text{ keV}$; measured σ relative to Au. ^{176}Lu , deduced γ -branching ratio. ^{176}Lu deduced ground state chronometric role nonvalidity in s-process. Activation, β - γ coincidence techniques.

Keynumber: 1980BEZC

Reference: NEANDC(E)-212U, Vol V, p.5 (1980)

Authors: H.Beer, F.Kappeler, K.Wisshak

Title: The Neutron Capture Cross Sections of Yb, ^{170}Yb , ^{175}Lu and ^{184}W

Keyword abstract: NUCLEAR REACTIONS ^{170}Yb , ^{175}Lu , ^{184}W , $\text{Yb}, \text{Lu}(\text{n},\gamma), \text{E}=5-200 \text{ keV}$; measured $\sigma(\text{E})$.

Keynumber: 1980BE05

Reference: Phys.Rev. C21, 534 (1980); Erratum Phys.Rev. C21, 2139 (1980)

Authors: H.Beer, F.Kappeler

Title: Neutron Capture Cross Sections on ^{138}Ba , ^{140}Ce , ^{175}Lu , and ^{181}Ta at 30 Kev:

Prerequisite for Investigation of the ^{176}Lu Cosmic Clock

Keyword abstract: NUCLEAR REACTIONS ^{138}Ba , ^{140}Ce , ^{175}Lu , ^{176}Lu , $^{181}\text{Ta}(\text{n},\gamma), \text{E}=30 \text{ keV}$; measured σ ; deduced solar S process age, Hf/Lu abundance.

Keynumber: 1979BEZF

Reference: Bull.Am.Phys.Soc. 24, No.7, 871, CC9 (1979)

Authors: H.Beer, F.Kappeler, K.Wisshak

Title: The Neutron Capture Cross Sections of Natural Yb, ^{170}Yb , ^{175}Lu and ^{184}W in the Energy Range from 5 to 200 keV for the ^{176}Lu -Chronometer

Keyword abstract: NUCLEAR REACTIONS Yb, ^{170}Yb , ^{175}Lu , $^{184}\text{W}(\text{n},\gamma), \text{E}=5-200 \text{ keV}$; measured σ .

Keynumber: 1979BEZE

Reference: Bull.Am.Phys.Soc. 24, No.7, 871, CC11 (1979)

Authors: H.Beer, F.Kappeler

Title: The Measurement of Maxwellian Averaged Capture Cross Sections for ^{138}Ba , ^{140}Ce , ^{175}Lu and ^{176}Lu with a Special Activation Technique

Keyword abstract: NUCLEAR REACTIONS ^{138}Ba , ^{140}Ce , ^{175}Lu , $^{176}\text{Lu}(\text{n},\gamma), \text{E}$ not given; measured Maxwellian averaged σ .

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}Cu , ^{69}Ga , ^{71}As , ^{79}Br , ^{80}Se , ^{85}Rb , ^{89}Y , ^{93}Nb , ^{96}Zr , ^{98}Mo , ^{100}Mo , ^{107}Ag , ^{109}Ag , ^{108}Pd , ^{114}Cd , ^{115}In , ^{127}I , ^{133}Cs , ^{138}Ba , ^{139}La , ^{140}Ce , ^{141}Pr , ^{152}Sm , ^{154}Sm , ^{158}Gd , ^{164}Dy , ^{165}Ho , ^{170}Er , ^{175}Lu , ^{180}Hf , ^{181}Ta , ^{184}W , ^{186}W , ^{185}Re , ^{187}Re , ^{197}Au , ^{202}Hg , ^{208}Pb , ^{209}Bi , $^{232}\text{Th}(\text{n},\gamma), \text{E}=24 \text{ keV}$; calculated σ ; deduced ratio of average $\Gamma\gamma$ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

Keynumber: 1978AL12

Reference: Czech.J.Phys.B28, 17 (1978)

Authors: L.Aldea, F.Becvar, H.T.Hiep, S.Pospisil, S.A.Telezhnikov

Title: Statistical Properties of Secondary γ -Transitions in the $^{175}, ^{176}\text{Lu}(n,\gamma)^{176}, ^{177}\text{Lu}$ Reactions

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma)$, E=reactor spectrum; measured $\sigma(E, E\gamma)$.

$^{176}, ^{177}\text{Lu}$ deduced resonances, levels, J, π .

Keynumber: 1977ALZS

Coden: REPT JINR-P3-10012, L Aldea

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma)$, E=reactor; measured $E\gamma, I\gamma$. $^{176}, ^{177}\text{Lu}$ resonances deduced Γ_n .

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: 1975WIZU

Coden: REPT ERDA/NDC-2, p28, Wilson

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma)$; measured $\sigma(E, E\gamma)$. $^{176}, ^{177}\text{Lu}$ deduced levels, $J, \pi, M1, E1$ strength functions.

Keynumber: 1975WIYY

Coden: REPT ANL-75-75,P140

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma)$, E=thermal; measured $\sigma(E\gamma)$. $^{176}, ^{177}\text{Lu}$ deduced resonances, J, π .

Keynumber: 1975NA02

Reference: Nucl.Phys. A237, 45 (1975)

Authors: A.I.Namenson, A.Stolovy, G.L.Smith

Title: Spins of Low-Energy Neutron Resonances in ^{175}Lu , ^{189}Os and ^{187}Os

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}, ^{187}, ^{189}\text{Os}(n,\gamma)$, E=2.6-300 eV; measured $E\gamma, I\gamma$.

^{176}Lu , ^{190}Os resonances deduced J, gn -width, spin cut-off factors. ^{188}Os resonances deduced J . Enriched targets.

Keynumber: 1975LI07

Reference: Phys.Rev. C11, 1231 (1975)

Authors: H.I.Liou, J.Rainwater, G.Hacken, U.N.Singh

Title: Neutron Resonance Spectroscopy: ^{175}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,n), (n,\gamma)$, E=1 eV-3 keV; measured total $\sigma(E)$, $\sigma(E, E\gamma)$. ^{176}Lu deduced resonances, level-width.

Keynumber: 1975GE11

Reference: Nucl.Phys. A251, 305 (1975)

Authors: D.Geinoz, J.Kern, R.Piepenbring

Title: Study of the $^{176}\text{Lu}(n,\gamma)^{177}\text{Lu}$ Reaction Using a Gamma Band-Filter Spectrometer

Keyword abstract: NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. ^{176}Lu deduced transitions. ^{177}Lu deduced levels, J, π . K. Coriolis calculation.

Keynumber: 1974NAZV**Coden:** JOUR BAPSA 19 574 JF11**Keyword abstract:** NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$; measured $\sigma(E\gamma)$. ^{176}Lu deduced resonances,J, π .

Keynumber: 1974NAZM**Coden:** REPT USNDC-11 P176**Keyword abstract:** NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$; measured $E\gamma, I\gamma$. ^{176}Lu levels deduced J, π .

Keynumber: 1974NAZK**Coden:** CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P87**Keyword abstract:** NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), E < 274 \text{ eV}$; measured $\sigma(E,E\gamma)$. ^{176}Lu deduced resonances,J.

Keynumber: 1974GEZR**Reference:** Use Reference 75Ge11**Keyword abstract:** NUCLEAR REACTIONS $^{175}, ^{176}\text{Lu}(n,\gamma), E = \text{thermal}$; measured $E\gamma, I\gamma$. $^{176}, ^{177}\text{Lu}$ deduced transitions. ^{177}Lu deduced levels,J, π .

Keynumber: 1974AN12**Reference:** Nucl.Phys. A226, 142 (1974)**Authors:** W.Andrejtscheff, P.Manfrass, W.Seidel**Title:** Transition Probabilities in the Doubly Odd Nuclei ^{176}Lu and ^{182}Ta **Keyword abstract:** NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma), E = \text{thermal}$; measured $\gamma\gamma(t)$. ^{176}Lu deduced levels,T_{1/2}. $^{181}\text{Ta}(n,\gamma), E = \text{thermal}$; measured $E\gamma, \gamma\gamma(t)$. ^{182}Ta deduced levels,T_{1/2},J, π . Enriched Lu,natural Ta targets. Ge(Li), NaI(Tl) detectors.

Keynumber: 1973SEYU**Coden:** REPT ZFK-262,p2-22**Keyword abstract:** NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$; measured $\sigma(E\gamma), \gamma(t)$. ^{176}Lu deduced levels,T_{1/2}.

Keynumber: 1973PRZI**Reference:** Spectra of Electromagnetic Transitions and Level Schemes Following Thermal Neutron Capture by Nuclides with A 143-193, P.Prokofev, J.Berzins, G.Rezvaya, Eds., Publishing House 'Zinatne', Riga (1973)**Authors:** P.Prokofev, M.Balodis, M.Beitins, Y.Berzin, V.Bondarenko, N.Kramer, A.Krumina, G.Rezvaya, L.Simonova**Title:****Keyword abstract:** NUCLEAR REACTIONS $^{143}, ^{145}\text{Nd}, ^{149}\text{Sm}, ^{167}\text{Er}, ^{174}\text{Yb}, ^{175}, ^{176}\text{Lu}, ^{177}, ^{178}\text{Hf}, ^{181}\text{Ta}, ^{186}\text{W}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma, I(\text{ce})$. Deduced ICC. $^{151}\text{Eu}, ^{155}\text{Gd}(n,\gamma)$, E=thermal; measured $E\gamma, I(\text{ce})$. Deduced ICC. $^{157}\text{Gd}, ^{162}, ^{164}\text{Dy}, ^{165}\text{Ho}, ^{168}\text{Yb}, ^{169}\text{Tm}(n,\gamma)$, E=thermal; measured I(ce). Deduced ICC. $^{191}, ^{193}\text{Ir}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. $^{144}\text{Nd}, ^{150}\text{Sm}, ^{156}, ^{158}\text{Gd}, ^{163}, ^{165}\text{Dy}, ^{166}\text{Ho}, ^{168}\text{Er}, ^{169}, ^{175}, ^{177}\text{Yb}, ^{170}\text{Tm}, ^{176}\text{Lu}, ^{178}\text{Hf}, ^{182}\text{Ta}$ deduced levels,J, π , γ -multipolarities. $^{146}\text{Nd}, ^{185}\text{W}, ^{194}\text{Ir}$ deduced levels,J, π . ^{152}Eu deduced transitions, γ -multipolarities. $^{187}\text{W}, ^{192}\text{Ir}$ deduced transitions.

Keynumber: 1973LAYT

Reference: INDC(HUN)-11/L, p.26 (1973)

Authors: L.Lakosi, A.Veres

Title: Activation Experiments of Photo-Neutrons by using ^{24}Na -Be Source

Keyword abstract: NUCLEAR REACTIONS ^{55}Mn , ^{114}Cd , ^{116}In , ^{127}I , ^{152}Sm , ^{154}Sm , ^{166}Er , ^{170}Er , ^{175}Lu , $^{191}\text{Ir(n,}\gamma\text{)}$, ^{107}Ag , ^{111}Cd , ^{115}In , ^{167}Er , $^{176}\text{Lu(n,n'}\gamma\text{)}$; measured σ .

Keynumber: 1973ANZE

Coden: CONF Munich(Nucl Phys), Vol1 P296

Keyword abstract: NUCLEAR REACTIONS ^{162}Dy (d,2n γ), (p,n γ), ^{175}Lu , ^{181}Ta , $^{178}\text{Hf(n,}\gamma\text{)}$, ^{155}Gd , $^{177}\text{Hf}(\alpha,2n\gamma)$; measured $\gamma\gamma(t)$. ^{162}Ho , ^{157}Dy , ^{176}Lu , ^{179}Hf , ^{179}W , ^{182}Ta levels deduced $T_{1/2}$.

Keynumber: 1972RA26

Reference: Nucl.Sci.Eng. 48, 219 (1972)

Authors: F.Rahn, H.S.Camarda, G.Hacken, W.W.Havens,Jr., H.I.Liou, J.Rainwater, M.Slagowitz, S.Wynchank

Title: Values of the Neutron Resonance Capture Integral for Some Rare Earth Isotopes

Keyword abstract: NUCLEAR REACTIONS ^{152}Sm , ^{154}Sm , ^{153}Eu , ^{154}Eu , ^{158}Gd , ^{166}Gd , ^{167}Gd , ^{168}Gd , ^{170}Er , ^{171}Er , ^{172}Er , ^{174}Yb , ^{175}Lu , ^{182}W , ^{183}W , ^{184}W , ^{186}W (n, γ); calculated resonance integrals.

Keynumber: 1972FU06

Reference: Nuovo Cim. 8A, 748 (1972)

Authors: A.Fubini, D.Prosperi, F.Terrasi, I.Vata

Title: ^{175}Lu (n, γ) Reaction and Level Structure of ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS ^{175}Lu (n, γ), E=thermal; measured $E\gamma$, $I\gamma$; deduced Q . ^{176}Lu deduced levels, γ -branching. Ge(Li) detector.

Keynumber: 1972BA80

Reference: Nucl.Phys. A194, 305 (1972)

Authors: M.K.Balodis, J.J.Tambergs, K.J.Alksnis, P.T.Prokofjev, W.G.Vonach, H.K.Vonach, H.R.Koch, U.Gruber, B.P.K.Maier, O.W.B.Schult

Title: The Level Scheme of ^{176}Lu Investigated by (n, γ) and (n,e) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{175}Lu (n, γ), E=thermal; measured $E\gamma$, $I\gamma$, $I(\text{ce})$. ^{176}Lu deduced levels, $J, \pi, K, \text{ICC}, \gamma$ -multipolarities. Enriched 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}Lu (n, γ), 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}Sm , ^{154}Sm , ^{151}Eu , ^{153}Eu , ^{154}Gd , ^{158}Gd , ^{160}Gd , ^{166}Gd , ^{167}Gd , ^{168}Gd ,

^{170}Er , ^{168}Yb , ^{170}Yb , ^{171}Yb , ^{172}Yb , ^{174}Yb , ^{176}Yb , ^{175}Lu , ^{182}Lu , ^{183}Lu , ^{184}Lu , $^{186}\text{W}(n,\gamma)$, measured capture resonance integrals.

Keynumber: 1971AUZV

Coden: REPT EANDC(E) 140 U,P87,12/30/71

Keyword abstract: NUCLEAR REACTIONS ^{64}Ni , $^{175}\text{Lu}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$. ^{65}Ni deduced levels, γ -branching. ^{176}Lu deduced transitions.

Keynumber: 1970WA20

Reference: Phys.Rev. C2, 675 (1970)

Authors: O.A.Wasson, R.E.Chrien

Title: Resonant Neutron Capture in ^{175}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, E=2-50 eV; measured $E\gamma$, $I\gamma$. ^{176}Lu deduced resonances, J , π , level-width. ^{176}Lu deduced levels, J .

Keynumber: 1970HAZB

Coden: CONF Madurai(Nucl,Solid State Phys),Vol2,P36

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , $^{175}\text{Lu}(n,\gamma)$, E=14.8 MeV; measured σ .

Keynumber: 1969MI21

Reference: Phys.Rev. 187, 1516 (1969)

Authors: M.M.Minor, R.K.Sheline, E.B.Shera, E.T.Jurney

Title: Energy Levels of ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS $^{175}\text{Lu}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced Q. $^{176}\text{Lu}(d,d')$, E=12 MeV; measured $\sigma(Ed')$. ^{176}Lu deduced levels, J , π , branching ratios, γ -multipolarity.

Keynumber: 1968KO16

Reference: Yadern.Fiz. 7, 493(1968); Soviet J.Nucl.Phys. 7, 310(1968)

Authors: V.A.Konks, Y.P.Popov, Y.I.Fenin

Title: Radiative Capture of Neutrons by Nuclei with $A = 140-200$

Keyword abstract: NUCLEAR REACTIONS Eu, ^{153}Eu , ^{165}Ho , $^{175}\text{Lu}(n,\gamma)$, E < 50 keV; measured σ .

Keynumber: 1960SC19

Reference: Nucl.Sci.Eng. 7, 477 (1960)

Authors: L.C.Schmid, W.P.Stinson

Title: Calibration of Lutetium for Measurements of Effective Neutron Temperatures

Keyword abstract: RADIOACTIVITY ^{176m}Lu , ^{177}Lu ; measured $T_{1/2}$.

Keyword abstract: NUCLEAR REACTIONS ^{175}Lu , $^{176}\text{Lu}(n,\gamma)$, E=reactor spectrum; measured cadmium ratio.
