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96 reference(s) found :

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 , ^{157}Gd , 162 , 163 , ^{164}Dy , ^{167}Er , 173 , ^{174}Yb , 177 , 178 , ^{180}Hf , 187 , ^{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 , $^{185}\text{W}(n,\gamma)$, E=thermal; analyzed I γ ; deduced non-exponential level densities.

Keynumber: 1999GR06

Reference: Yad.Fiz. 62, No 2, 227 (1999); Phys.Atomic Nuclei 62, 192 (1999)

Authors: O.T.Grudzevich

Title: Energy Dependence of Radiative Strength Functions and Photon Spectra

Keyword abstract: NUCLEAR STRUCTURE A=50-185; analyzed E1,M1 radiative strength functions.

Keyword abstract: NUCLEAR REACTIONS ^{159}Tb , ^{165}Ho , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$, E not given; Tb (n, γ), E=0.01,0.4,0.8 MeV; ^{56}Fe , $^{52}\text{Cr}(n,\gamma)$, E=14 MeV; ^{45}Sc , ^{89}Y , ^{93}Nb , ^{127}I , ^{133}Cs , ^{141}Pr , ^{139}La , ^{209}Bi (n, γ), E=0.5 MeV; analyzed E γ ; deduced energy dependence of E1,M1 radiative strength functions, E2 radiative widths.

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 , ^{124}Te , ^{127}I , 134 , 136 , 137 , ^{138}Ba , ^{139}La , 142 , 143 , ^{145}Nd , ^{149}Sm , 155 , ^{157}Gd , ^{159}Tb , 162 , 163 , ^{164}Dy , ^{165}Ho , ^{167}Er , ^{169}Tm , 173 , 174 , ^{176}Yb , 175 , ^{176}Lu , 177 , 178 , 179 , ^{180}Hf , ^{181}Ta , 182 , ^{186}W , 187 , ^{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: 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}Cd , ^{127}I , ^{123}Te , 134 , 136 , 137 , ^{138}Ba , 142 , 143 , ^{145}Nd , ^{149}Sm , 155 , ^{157}Gd , ^{159}Tb , ^{165}Ho , 162 , 163 , ^{164}Dy , ^{167}Er , ^{169}Tm , 173 , 174 , ^{176}Yb , 175 , ^{176}Lu , 177 , 178 , 179 , ^{180}Hf , ^{195}Pt , ^{199}Hg , ^{181}Ta , 182 , ^{186}W , ^{191}Ir , $^{197}\text{Au}(n,\gamma)$, E=thermal; analyzed γ spectra, $\gamma\gamma$ -coin. ^{114}Cd , ^{124}Te , 137 , 138 , ^{139}Ba , ^{146}Nd , ^{150}Sm , 156 , ^{158}Gd , ^{160}Tb , ^{164}Dy , ^{168}Er , ^{170}Tm , ^{174}Yb , ^{181}Hf , ^{196}Pt , ^{200}Hg , ^{182}Ta , ^{183}W , ^{192}Ir , ^{198}Au deduced two-quantum cascade intensities vs excitation energy, level density parameters, pairing features.

Keynumber: 1997MUZV

Reference: Proc.Intern.on Nuclear Data for Science and Technology, Trieste, Italy, 19-24 May, 1997, G.Reffo, A.Ventura, C.Grandi, Eds., Editrice Compositori, Italy, Pt.2, p.1624 (1997)

Authors: S.Mughabghab

Title: Neutron Capture Cross Sections for Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{127}I , ^{141}Pr , 150 , 152 , ^{154}Sm , $^{181}\text{Ta}(n,\gamma)$, $E=30$ keV; calculated Maxwellian averaged capture σ .

Keynumber: 1997KHZW

Reference: Proc.Intern.on Nuclear Data for Science and Technology, Trieste, Italy, 19-24 May, 1997, G.Reffo, A.Ventura, C.Grandi, Eds., Editrice Compositori, Italy, Pt.1, p.750 (1997)

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

Title: States of Heavy Nuclei Strongly Excited in the $(n(\text{th}),\gamma)$ -Reaction: Possible dominant component at $E(\text{ex}) \leq 3\text{-}5$ MeV

Keyword abstract: NUCLEAR REACTIONS ^{167}Er , ^{174}Yb , ^{176}Lu , $^{181}\text{Ta}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{168}Er , ^{175}Yb , ^{177}Lu , ^{182}Ta deduced collective excitations.

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 , $^{238}\text{Np}(n,\gamma)$, $E=\text{reactor}$; measured $E\gamma$, $I\gamma$; deduced capture σ , resonance integral, least-squares fit parameters. Multi-element standard.

Keynumber: 1997AL28

Reference: Bull.Rus.Acad.Sci.Phys. 61, 1627 (1997)

Authors: M.A.Ali, A.T.Boneva, E.B.Vasileva, V.A.Karmolina, A.M.Sukhovoi, V.A.Khitrov

Title: Cascade Gamma Decay of the ^{182}Ta Compound State

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{182}Ta levels deduced collective modes contributions.

Keynumber: 1996KO60

Reference: Nucl.Instrum.Methods Phys.Res. A379, 317 (1996)

Authors: N.V.Kornilov

Title: Capture Cross Section Measurements with a Total Energy BGO-Detector

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E \leq 200$ keV; measured capture σ vs E . ToF method, total energy BGO detector.

Keynumber: 1995ZH46

Reference: Chin.J.Nucl.Phys. 17, No 2, 154 (1995)

Authors: Z.-X.Zhao, T.Liu

Title: Calculation of Gamma Production Data from Neutron Induced Reactions on Thirteen Targets

Keyword abstract: NUCLEAR REACTIONS Zn,Zr,Mo,Cd,In,Sb,Hf,Pb, ^{181}Ta , Ti, $^{197}\text{Au}(n,n')$, (n,γ) , $(n,2n)$, $(n,3n)$, $E \leq 20$ MeV; calculated γ spectra, multiplicities related features.

Keynumber: 1995KO44

Reference: Yad.Fiz. 58, No 6, 975 (1995); Phys.Atomic Nuclei 58, 903 (1995)

Authors: O.E.Kolyaskin, L.I.Menshikov, Yu.V.Norssev, L.N.Somov

Title: Intense Beams of Radioactive Nuclei

Keyword abstract: RADIOACTIVITY $^{125}\text{Xe}(\text{EC})$ [from $^{124}\text{Xe}(n,\gamma)$, $E=\text{reactor}$]; measured $E\gamma$, $I\gamma$

following daughter decay; deduced ^{125}I collection efficiency, implications of method suitability for radioactive beams. Enriched ^{124}Xe target, electrostatic extraction.

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, E=reactor; measured ^{182}Ta ions collection efficiency. Electrostatic extraction.

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 $(n\gamma)$ Reactions

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

Keynumber: 1994NE02

Reference: J.Phys.(London) G20, L33 (1994)

Authors: Chr.Necheva, D.Kolev, M.Vlasarev

Title: 14.5 MeV Neutron Capture Cross-Section Measurements in ^{181}Ta with Activation Technique

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, E=14.5 MeV; measured capture σ relative to $\sigma(n,p)$, isomeric ratios. Activation technique.

Keynumber: 1993VIZW

Reference: Program and Thesis, Proc.43rd Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Dubna, p.212 (1993)

Authors: I.N.Vishnevsky, V.A.Zheltonozhsky, A.G.Zelinsky, S.V.Reshitko, M.A.Ukhin

Title: Study of Production of Isomers in (n,γ) and (n,α) Reactions on ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, (n,α) , E=thermal; measured reaction σ , ^{178}Lu , ^{187}Ta isomeric σ ratio. Activation technique.

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 , $^{197}\text{Au}(n,\gamma)$, E=thermal; measured isomeric ratios, γ -spectra. ^{152}Eu , ^{182}Ta , ^{198}Au deduced transition feature.

Keynumber: [1992HE19](#)

Reference: Phys.Rev. C46, 2493 (1992)

Authors: M.Herman, A.Horing, G.Reffo

Title: Gamma Emission in Precompound Reactions. II. Numerical Application

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{59}Co , $^{181}\text{Ta}(n,\gamma)$, E=14.1 MeV; analyzed total γ -spectra. Precompound reactions, parameter free interpretation.

Keynumber: 1990XI04

Reference: Chin.J.Nucl.Phys. 12, No 3, 261 (1990)

Authors: Y.Xia, C.Wang, J.Yang, Z.Yang, M.Liu

Title: Measurement of Maxwellian Averaged Neutron Capture Cross Section of 140 , ^{142}Ce , ^{139}La and ^{181}Ta at $kT = 24$ keV

Keyword abstract: NUCLEAR REACTIONS $^{140}, ^{142}\text{Ce}, ^{139}\text{La}, ^{181}\text{Ta}(n,\gamma), E \leq 250 \text{ keV}$; measured $E\gamma, I\gamma$ following capture; deduced Maxwellian averaged capture σ . Hyperpure Ge detector.

Keynumber: [1990WI14](#)

Reference: Phys.Rev. C42, 1731 (1990)

Authors: K.Wisshak, F.Voss, F.Kappeler, G.Reffo

Title: Measurements of keV Neutron Capture Cross Sections with a 4π Barium Fluoride Detector: Examples of $^{93}\text{Nb}, ^{103}\text{Rh},$ and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS $^{93}\text{Nb}, ^{103}\text{Rh}, ^{181}\text{Ta}(n,\gamma), E=3-200 \text{ keV}$; measured capture σ relative to gold standard; deduced Maxwellian averaged σ at $(kT)=10-50 \text{ keV}$.

Keynumber: [1990OB01](#)

Reference: Phys.Rev. C42, 1652 (1990)

Authors: P.Oblozinsky, M.B.Chadwick

Title: Gamma-Ray Emission from Multistep Compound Reactions

Keyword abstract: NUCLEAR REACTIONS $^{59}\text{Co}, ^{93}\text{Nb}, ^{181}\text{Ta}(n,\gamma), E=14 \text{ MeV}$; calculated γ -production σ vs $E\gamma$; deduced reaction mechanism. Multi-step compound theory.

Keyword abstract: NUCLEAR STRUCTURE $^{94}\text{Nb}, ^{60}\text{Co}, ^{182}\text{Ta}$; calculated r-stage, γ -escape widths. Multi-step compound theory.

Keynumber: 1989MI24

Reference: Nucl.Instrum.Methods Phys.Res. A282, 324 (1989)

Authors: M.Mizumoto, M.Sugimoto

Title: The Influence of Water Absorption in Samples for Neutron Capture Cross Section Measurements

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma), E \approx 5-100 \text{ keV}$; calculated capture $\sigma(E)$; deduced sample water absorption corrections. Semi-Monte-Carlo techniques.

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

Keynumber: 1987YA07

Reference: Nucl.Sci.Eng. 96, 210 (1987)

Authors: N.Yamamuro, K.Udagawa, T.Natsume

Title: Calculation of Capture Cross Sections and Gamma-Ray Spectra following the Interaction of Neutrons with ^{181}Ta and ^{197}Au

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}, ^{197}\text{Au}(n,\gamma), E=10-4000 \text{ KeV}$; $^{181}\text{Ta}, ^{197}\text{Au}(n,X\gamma), E=0.01, 0.02, 0.4, 1.5, 1.7, 4.2, 4.5 \text{ MeV}$; calculated capture σ, γ ray spectra. $^{181}\text{Ta}, ^{197}\text{Au}$ deduced level density parameters. $^{182}\text{Ta}, ^{198}\text{Au}$ deduced γ ray strength functions, level density parameters.

Keynumber: 1987XU02

Reference: Chin.J.Nucl.Phys. 9, 127 (1987)

Authors: Xu Haishan, Xiang Zhengyu, Mu Yunshan, Chen Yaoshun, Liu Jinrong, Li Yexiang

Title: Measurements of Fast Neutron Capture Cross Section of the ^{169}Tm and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS ^{169}Tm , $^{181}\text{Ta}(n,\gamma)$, $E=1.01, 1.21, 1.44$ MeV; measured capture $\sigma(E)$. Tof, liquid scintillation counter.

Keynumber: 1986YA13

Reference: Radiat.Eff. 95, 179 (1986)

Authors: N.Yamamuro

Title: Calculation of Capture Gamma-Ray Spectra for Ta-181 and Au-197

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=400$ keV; $^{197}\text{Au}(n,\gamma)$, $E=4.2$ MeV; calculated γ -ray spectra. ^{182}Ta , ^{198}Au deduced level density, pigmy resonance parameters.

Keynumber: 1986VO03

Reference: Nucl.Sci.Eng. 93, 43 (1986); Corrigendum Nucl.Sci.Eng. 96 343 (1987)

Authors: J.Voignier, S.Joly, G.Grenier

Title: Capture Cross Sections and Gamma-Ray Spectra from the Interaction of 0.5- to 3.0-MeV Neutrons with Nuclei in the Mass Range $A = 63$ to 209

Keyword abstract: NUCLEAR REACTIONS Cu, ^{89}Y , Zr, ^{93}Nb , La, Gd, ^{159}Tb , ^{181}Ta , Re, Pt, Tl, ^{209}Bi , $^{63, 65}\text{Cu}$, $^{155, 156, 157, 158, 160}\text{Gd}$, $^{182, 183, 184, 186}\text{W}$, $^{203, 205}\text{Tl}(n,\gamma)$, $E=0.5-3$ MeV; measured absolute $\sigma(E)$; deduced capture γ -multiplicity.

Keynumber: 1986SE14

Reference: Radiat.Eff. 95, 165 (1986)

Authors: M.L.Sehgal, R.K.Y.Singh, R.E.Chrien, C.Chung

Title: Thermal Neutron Isomeric Cross-Section Ratio in ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=\text{thermal}$; measured relative $I\gamma$, isomeric σ ratio. ^{182}Ta deduced quadrupole transitions. Ge(Li) detector. Huizenga-Vandenbosch formalism.

Keynumber: 1985RAZX

Reference: Bull.Am.Phys.Soc. 30, No.4, 797, IG13 (1985)

Authors: P.Ramakrishnan, C.R.Gould, J.Dave, G.E.Mitchell, G.Auchampaugh, S.Wender

Title: Tantalum Gamma-Ray Production Cross Section Measurements at WNR

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=2-25$ MeV; measured γ production $\sigma(E)$, γ (θ). Pulsed white neutron source.

Keynumber: 1984MA18

Reference: Nucl.Sci.Eng. 86, 362 (1984)

Authors: R.L.Macklin

Title: Neutron Capture Cross Sections of Tantalum from 2.6 to 1900 keV

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=2.6-1900$ keV; measured average capture σ (E). ^{182}Ta deduced resonances, $(g\Gamma_n\Gamma_\gamma/\Gamma)$. Least-squares fit.

Keynumber: 1983YA09

Reference: J.Nucl.Sci.Technol.(Tokyo) 20, 797 (1983)

Authors: N.Yamamuro, M.Igashira, T.Sekiya, H.Shirayanagi

Title: keV-Neutron Capture in Cesium-133, Gold-197 and Tantalum-181

Keyword abstract: NUCLEAR REACTIONS ^{133}Cs , ^{197}Au , $^{181}\text{Ta}(n,\gamma)$, $E=3.2-270$ keV; measured capture $\sigma(E)$. ^{198}Au , ^{134}Cs , ^{182}Ta deduced level density distributions, γ -strength functions.

Keynumber: 1983YA06

Reference: J.Nucl.Sci.Technol.(Tokyo) 20, 722 (1983)

Authors: T.Yamamoto

Title: Evaluation of Neutron Capture Gamma-Ray Spectra in Hafnium and Tantalum

Keyword abstract: NUCLEAR REACTIONS $^{174, 176, 177, 178, 179, 180}\text{Hf}$, $^{181}\text{Ta}(n,\gamma)$, $E=\text{thermal}$; $^{181}\text{Ta}(n,\gamma)$, $E=0.25, 0.5$ MeV; calculated capture $E\gamma, I\gamma$. ^{182}Ta , $^{175, 177, 178, 179, 180, 181}\text{Hf}$ deduced level density parameters. Cascade 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 , $^{94, 96}\text{Zr}$, ^{123}Sb , ^{130}Ba , ^{133}Cs , ^{139}La , ^{140}Ce , ^{159}Tb , ^{180}Hf , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$, $E=\text{thermal, epithermal}$; analyzed data. Generalized least-squares fit.

Keynumber: 1982RE04

Reference: Nucl.Sci.Eng. 80, 630 (1982)

Authors: G.Reffo, F.Fabbri, K.Wisshak, F.Kappeler

Title: Fast Neutron Capture Cross Sections and Related Gamma-Ray Spectra of Niobium-93, Rhodium-103, and Tantalum-181

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{103}Rh , $^{181}\text{Ta}(n,\gamma)$, $E=10-70$ keV; measured σ (capture). Moxon-Rae detectors, ^{197}Au standard. Hauser-Feshbach calculations.

Keynumber: 1981YAZW

Reference: NEANDC(J)-75/U, p.76 (1981)

Authors: N.Yamamuro, K.Saito, T.Emoto, T.Wada, Y.Fujita, K.Kobayashi

Title: Neutron Capture Cross Section Measurements of Nb-93, I-127, Ho-165, Ta-181 and U-238 between 3.2 and 80 keV

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{127}I , ^{165}Ho , ^{181}Ta , $^{238}\text{U}(n,\gamma)$, $E=3.2-80$ keV; measured σ (capture) vs E.

Keynumber: 1981ST16

Reference: Phys.Rev. C24, 1419 (1981)

Authors: M.L.Stelts, R.E.Chrien, M.K.Martel

Title: Nuclear Level Densities from Resonance Averaged Neutron Capture γ -Ray Spectra

Keyword abstract: NUCLEAR REACTIONS $^{147, 149, 154}\text{Sm}$, ^{165}Ho , ^{167}Er , ^{181}Ta , ^{182}W , ^{189}Os , ^{195}Pt , ^{197}Au , $^{236, 238}\text{U}(n,\gamma)$, $E=2, 24$ keV; measured $E\gamma, I\gamma$ for average resonance capture. $^{148, 150, 155}\text{Sm}$, ^{166}Ho , ^{168}Er , ^{182}Ta , ^{183}W , ^{190}Os , ^{196}Pt , ^{198}Au , $^{237, 239}\text{U}$ deduced level density parameters. Fermi gas model.

Keynumber: 1981SHZN

Reference: NEANDC(J)-75/U, p.74 (1981)

Authors: H.Shirayanagi, T.Yoshinari, M.Igashira, N.Yamamuro

Title: Neutron Capture Gamma-Ray Spectrum for ^{133}Cs

Keyword abstract: NUCLEAR REACTIONS ^{133}Cs , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$, $E=1.5-75$ keV; measured $E\gamma, I\gamma$. Liquid C_6D_6 scintillation counters.

Keynumber: 1981REZY

Reference: NEANDC(E)-222U, Vol.V, p.7 (1981)

Authors: G.Reffo, F.Fabbri, K.Wisshak, F.Kappeler

Title: Fast Neutron Capture Cross Sections and Related Gamma Ray Spectra of ^{93}Nb , ^{103}Rh , and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{103}Rh , $^{181}\text{Ta}(n,\gamma)$, $E=10-70$ 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}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) , $E=\text{thermal}, 0.2-2.8$ MeV; $^{92}\text{Mo}(p,\gamma)$, $E=1.8-7.4$ MeV; analyzed $\sigma(\text{capture})$ isomer ratio vs E . Statistical theory.

Keynumber: 1980YA05

Reference: J.Nucl.Sci.Technol.(Tokyo) 17, 582 (1980)

Authors: N.Yamamuro, K.Saito, T.Emoto, T.Wada, Y.Fujita, K.Kobayashi

Title: Neutron Capture Cross Section Measurements of Nb-93, I-127, Ho-165, Ta-181 and U-238 between 3.2 and 80 keV

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{165}Ho , ^{181}Ta , $^{238}\text{U}(n,\gamma)$, $E=3.2-80$ keV; measured σ . Tof, C_6F_6 , C_6D_6 scintillators.

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 , $^{187}\text{Re}(n,\gamma)$, $E=14.6$ MeV; measured σ ; deduced no shell effects. Activation technique.

Keynumber: 1980SHZI

Reference: NEANDC(J)-67/U, p.70 (1980)

Authors: H.Shirayanagi, T.Hayashi, M.Igashira, N.Yamamuro

Title: Measurement of Spectra of Gamma-rays from Capture of keV-Neutrons by ^{197}Au and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS ^{197}Au , $^{181}\text{Ta}(n,\gamma)$, $E=1.5-75$ keV; measured $E\gamma$. Monte Carlo calculation.

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 , ^{142}Ce , 175 , ^{176}Lu , and ^{181}Ta at 30 KeV: Prerequisite for Investigation of the ^{176}Lu Cosmic Clock

Keyword abstract: NUCLEAR REACTIONS ^{138}Ba , 140 , ^{142}Ce , 175 , ^{176}Lu , $^{181}\text{Ta}(n,\gamma)$, $E=30$ keV; measured σ ; deduced solar S process age, Hf/Lu abundance.

Keynumber: 1979VA10

Reference: Phys.Rev. C20, 504 (1979)

Authors: J.M.Van den Cruyce, G.Vandenput, L.Jacobs, P.H.M.Van Assche, H.A.Baader, D.Breitig, H.R.Koch, J.K.Alksnis, J.J.Tamberg, M.K.Balodis, P.T.Prokofjev, W.Delang, P.Gottel, H.Seyfarth

Title: Nuclear Levels in the Doubly Odd ^{182}Ta Nucleus

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma, I(\text{ce}), \gamma\gamma$ -coin. ^{181}Ta resonances deduced J. ^{182}Ta deduced levels, J, π , K, ICC, γ -multipolarities. Natural 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, $^{209}\text{Bi}(n,\gamma)$, E=14.6 MeV; measured $\sigma(E\gamma)$.

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 , ^{65}Cu , ^{69}Ga , ^{71}Ga , ^{75}As , ^{79}Br , ^{81}Br , ^{80}Se , ^{85}Rb , ^{87}Rb , ^{89}Y , ^{93}Nb , ^{96}Zr , ^{98}Zr , ^{100}Mo , ^{107}Ag , ^{109}Ag , ^{108}Pd , ^{114}Cd , ^{115}In , ^{127}I , ^{133}Cs , ^{138}Ba , ^{139}La , ^{140}Ce , ^{142}Ce , ^{141}Pr , ^{152}Sm , ^{154}Sm , ^{158}Gd , ^{160}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 , $^{232}\text{Th}(n,\gamma)$, 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: 1978YA14

Reference: J.Nucl.Sci.Technol. 15, 637 (1979)

Authors: N.Yamamuro, T.Doi, T.Miyagawa, Y.Fujita, K.Kobayashi, R.C.Block

Title: Measurement of Neutron Capture Cross Sections with Fe-Filtered Beam

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{115}In , ^{127}I , ^{165}Ho , ^{181}Ta , ^{232}Th , $^{238}\text{U}(n,\gamma)$, E=24 keV; measured σ . Fe-filtered beam.

Keynumber: 1978ST26

Reference: Nucl.Sci.Eng. 67, 344 (1978)

Authors: M.Stelts, J.C.Browne

Title: The Dependence of the Gamma-Ray Spectral Shape on the Neutron Energy Averaging Interval Size for the $^{181}\text{Ta}(n,\gamma)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, E=4.28, 20-200 eV; measured $E\gamma, I\gamma$; deduced dependence of shape capture γ -spectra on neutron energy averaging.

Keynumber: 1978SIZQ

Coden: REPT CEA-N-2037,P101,Simon

Keyword abstract: NUCLEAR REACTIONS ^{85}Rb , ^{133}Cs , ^{159}Tb , ^{176}Lu , $^{181}\text{Ta}(n,\gamma)$, E=0.00001 eV-20 MeV; evaluated σ . RESEND, parameters of revised ENDF/B IV file.

Keynumber: 1978AR22

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 42, 831 (1978); Bull.Acad.Sci.USSR, Phys.Ser. 42, No.4, 120 (1978)

Authors: L.Y.Arifov, B.S.Mazitov, V.G.Ulanov, S.A.Yusupbekova

Title: Measurement of the Relative Probabilities of Excitation of Isomer States during Radiative Capture of Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , ^{89}Y , ^{164}Dy , ^{181}Ta , ^{187}Re , $^{191}\text{Ir}(n,\gamma)$, $E=\text{thermal}$; measured nothing; analyzed data; deduced relative probabilities of excitation of isomeric states.

Keynumber: 1977ST15

Reference: Phys.Rev. C16, 574 (1977)

Authors: M.L.Stelts, J.C.Browne

Title: Gamma-Ray Spectra from Capture of 2-eV to 3-keV Neutrons by ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=2\text{ev}-3\text{ keV}$; measured $\sigma(E,E\gamma)$; deduced Q. ^{182}Ta deduced levels, $J,\pi,\Gamma\gamma$, strength function, correlation coefficients.

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 , $^{197}\text{Au,Sm}$, 147 , $^{149}\text{Sm, Eu}$, 151 , ^{153}Eu (n,γ) , $E=5-350\text{ keV}$; measured $\sigma(E)$.

Keynumber: 1976STYV

Coden: THESIS DABBB 36B 6241, Stelts

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, $E=2\text{ev}-90\text{ keV}$; measured $\sigma(E,E\gamma)$. ^{182}Ta deduced levels, J,π .

Keynumber: 1975YOZW

Coden: REPT LA-UR-75-317,mf

Keyword abstract: NUCLEAR REACTIONS ^{14}N , ^{27}Al , $^{56}\text{Fe,Mo}$, ^{93}Nb , $^{181}\text{Ta,W}$, ^{238}U (n,γ) , $E=\text{thermal}$, 14 MeV; calculated σ .

Keynumber: 1975POZW

Coden: REPT ERDA/NDC-2, p13, Poenitz

Keyword abstract: NUCLEAR REACTIONS ^{165}Ho , $^{181}\text{Ta}(n,\gamma)$, $E=0.3-3.0\text{ MeV}$; measured σ .

Keynumber: 1975KO10

Reference: Acta Phys.Austr. 41, 335 (1975)

Authors: H.-P.Korn, P.Weinzierl, P.Riehs

Title: The Shape of γ -Ray Spectra after Thermal Neutron Capture in Coincidence to Low Energy γ -Transitions

Keyword abstract: NUCLEAR REACTIONS ^{149}Sm , ^{157}Gd , $^{181}\text{Ta}(n,\gamma)$, $E=\text{thermal}$; measured $\gamma\gamma$ -coin, γ -shape spectra. ^{150}Sm , ^{158}Gd , ^{182}Ta resonances deduced J.

Keynumber: 1975ANZV

Coden: JOUR BAPSA 20 173 IB15

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

Keynumber: 1974STZF

Coden: REPT USNDC-11 P139

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma), E=1-10$ MeV; measured $E\gamma, I\gamma$.

Keynumber: 1974SI11

Reference: Ann.Phys.(New York) 83, 355 (1974)

Authors: K.Siddappa, M.S.Murty, J.R.Rao

Title: Neutron Strength Functions of Nuclei in the Deformed Region

Keyword abstract: NUCLEAR REACTIONS $^{138}\text{Ba}, ^{140}, ^{142}\text{Ce}, ^{146}, ^{148}\text{Nd}, ^{152}, ^{154}\text{Sm}, ^{158}, ^{160}\text{Gd}, ^{159}\text{Tb}, ^{169}\text{Tm}, ^{170}\text{Er}, ^{174}, ^{176}\text{Yb}, ^{180}\text{Hf}, ^{181}\text{Ta}, ^{186}\text{W}, ^{190}, ^{192}\text{Os}, ^{197}\text{Au}, ^{202}\text{Hg}(n,\gamma), E=18-28$ keV;

measured σ ; deduced p-wave strength functions.

Reference: Can.J.Phys. 52, 1160 (1974)

Authors: B.Singh, M.W.Johns

Title: Spin Determinations in Low Lying States of ^{151}Sm

Keyword abstract: RADIOACTIVITY ^{151}Pm ; measured $\gamma\gamma(\theta), I\gamma$. ^{151}Sm levels deduced J, π , γ -mixing, λ .

Keynumber: 1974JAYX

Reference: CONF-740320-2 (1974)

Authors: H.E.Jackson

Title: Status of Predictions of Photon Strength Functions by Giant Dipole Resonance and Valence Models

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma), (n,\alpha\gamma)$; calculated σ .

Keynumber: 1974GAZJ

Coden: JOUR BAPSA 19 1017 DC10

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}, ^{197}\text{Au}(n,\gamma)$; calculated $\sigma(E\gamma)$.

Keynumber: 1974AL22

Reference: Nucl.Phys. A235, 307 (1974)

Authors: J.Alam, M.L.Sehgal

Title: Study of Isomeric States of ^{178}Lu from the $^{181}\text{Ta}(n,\alpha)^{178\text{m}}\text{Lu}, ^{178}\text{Lu}$ Reactions at Thermal Energy

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\alpha), (n,\gamma), E=\text{thermal}$; measured relative $\sigma(E, E\alpha)/\sigma(E, E\gamma)$. ^{178}Lu deduced levels, J, π .

Keynumber: 1973VAZD

Coden: CONF Munich(Nucl Phys), Vol1 P153

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma, \gamma\gamma(\theta)$. ^{182}Ta deduced levels, J, π .

Keynumber: 1973VAXZ

Coden: REPT RCN-203 P57

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma, I\gamma, I(\text{ce}), \gamma\gamma\text{-coin}$. ^{182}Ta deduced levels, J, π , γ -mixing, K.

Keynumber: 1973THZO

Coden: REPT ANL-8035 P8

Keyword abstract: NUCLEAR REACTIONS ^{181}Ta , $^{197}\text{Au}(n,\gamma)$; measured $E\gamma, I\gamma$.

Keynumber: 1973STXU

Coden: REPT USNDC-7 P112

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $\sigma(E;E\gamma)$. ^{182}Ta deduced levels.

Keynumber: 1973SI45

Reference: Nuovo Cim. 18A, 48 (1973)

Authors: K.Siddappa, M.Sriramachandra Murty, J.Rama Rao

Title: Neutron Activation Cross-Sections in Rare Earths and Heavier Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{138}Ba , 140 , ^{142}Ce , 146 , ^{148}Nd , ^{160}Gd , ^{165}Ho , ^{180}Hf , ^{181}Ta , ^{190}Os , ^{197}Au , $^{202}\text{Hg}(n,\gamma), E=23\text{ keV}$; measured σ .

Keynumber: 1973SCYA

Coden: REPT INDC(SEC)-36/L P8

Keyword abstract: NUCLEAR REACTIONS ^{26}Mg , ^{37}Cl , ^{41}K , ^{55}Mn , ^{71}Ga , ^{81}Br , ^{87}Rb , ^{100}Mo , ^{115}In , ^{127}I , ^{133}Cs , ^{138}Ba , ^{139}La , ^{142}Ce , ^{181}Ta , $^{198}\text{Pt}(n,\gamma)$; measured σ .

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}Nd , ^{149}Sm , ^{167}Er , ^{174}Yb , 175 , ^{176}Lu , 177 , ^{178}Hf , ^{181}Ta , $^{186}\text{W}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I\gamma, I(\text{ce})$. Deduced ICC. ^{151}Eu , $^{155}\text{Gd}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, I(\text{ce})$. Deduced ICC. ^{157}Gd , 162 , ^{164}Dy , ^{165}Ho , ^{168}Yb , $^{169}\text{Tm}(n,\gamma)$, $E=\text{thermal}$; measured $I(\text{ce})$. Deduced ICC. 191 , $^{193}\text{Ir}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma$. ^{144}Nd , ^{150}Sm , 156 , ^{158}Gd , 163 , ^{165}Dy , ^{166}Ho , ^{168}Er , 169 , 175 , ^{177}Yb , ^{170}Tm , ^{176}Lu , ^{178}Hf , ^{182}Ta deduced levels, J, π , γ -multipolarities. ^{146}Nd , ^{185}W , ^{194}Ir deduced levels, J, π . ^{152}Eu deduced transitions, γ -multipolarities. ^{187}W , ^{192}Ir deduced transitions.

Keynumber: 1973HAZZ

Coden: JOUR BAPSA 18 96,G Hacken,1/15/73

Keyword abstract: NUCLEAR REACTIONS ^{140}Ce , ^{181}Ta , $^{197}\text{Au}(n,X)$, (n,γ) ; measured transmission. ^{141}Ce , ^{198}Au , ^{182}Ta deduced resonance parameters.

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 , $^{181}\text{Ta}(n,\gamma)$; measured integral σ .

Keynumber: 1973GAYO

Coden: REPT COO-2176-20 P2

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; analyzed data. ^{182}Ta deduced resonances.

Keynumber: 1973EIZU

Coden: REPT NP-19831 P74

Keyword abstract: NUCLEAR REACTIONS $^{102}, ^{104}\text{Ru}$, $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma,\gamma\gamma$ -coin. $^{103}, ^{105}\text{Ru}$, ^{182}Ta deduced transitions.

Keynumber: 1973DEWA

Coden: REPT Kernforsch Julich 1972 Ann,KFA/IKP-10/73 P280

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma,\gamma\gamma$ -coin. ^{182}Ta deduced levels.

Keynumber: 1973BUYT

Coden: REPT ANL-8035 P17

Keyword abstract: NUCLEAR REACTIONS ^{159}Tb , ^{149}Sm , $^{181}\text{Ta}(n,\gamma)$; measured $\sigma(E\gamma)$. ^{160}Tb , ^{150}Sm , ^{182}Ta deduced levels.

Keynumber: 1973BAYO

Coden: CONF Tbilisi,p106

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$,E not given; measured γ -spectra,ce-spectra, $\gamma\gamma$ -coin. ^{182}Ta deduced levels,K,J, π ,configurations.

Keynumber: 1973ANZE

Coden: CONF Munich(Nucl Phys),Vol1 P296

Keyword abstract: NUCLEAR REACTIONS $^{162}, ^{164}\text{Dy}(d,2n\gamma)$, (p,n γ), ^{175}Lu , ^{181}Ta , $^{178}\text{Hf}(n,\gamma)$, ^{155}Gd , $^{177}\text{Hf}(\alpha,2n\gamma)$; measured $\gamma\gamma(t)$. $^{162}, ^{164}\text{Ho}$, ^{157}Dy , ^{176}Lu , ^{179}Hf , ^{179}W , ^{182}Ta levels deduced $T_{1/2}$.

Keynumber: 1973ANYL

Coden: REPT ZFK-262,p2-26

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $\gamma\gamma(t)$. ^{182}Ta levels deduced $T_{1/2}$.

Keynumber: 1972VAZB

Coden: REPT SCK/CEN 1971 Annual,BLG -467,P van Assche,P3-30,CRL

Keyword abstract: NUCLEAR REACTIONS ^{150}Sm , ^{178}Hf , $^{181}\text{Ta}(n,\gamma)$; measured $E\gamma,I\gamma$. ^{151}Sm , ^{179}Hf , ^{182}Ta deduced levels,J, π .

Keynumber: 1972VAYT

Coden: REPT BLG-481 P4-27

Keyword abstract: NUCLEAR REACTIONS ^{150}Sm , ^{178}Hf , $^{181}\text{Ta}(n,\gamma)$,E=thermal; measured $E\gamma$,E(ce), $\gamma\gamma$ -coin. ^{151}Sm , ^{179}Hf , ^{182}Ta deduced transitions.

Keynumber: 1972THZU

Reference: AERE-PP/NP 18, p.23 (1972)

Authors: B.W.Thomas, H.P.Axmann, P.Riehs, E.R.Rae

Title: Resonance Capture Gamma-Ray Studies

Keyword abstract: NUCLEAR REACTIONS ^{133}Cs , ^{167}Er , ^{169}Tm , $^{181}\text{Ta}(n,\gamma)$; measured $\sigma(E\gamma)$. ^{134}Cs , ^{168}Er , ^{170}Tm , ^{182}Ta resonances deduced J.

Keynumber: 1972SEZH

Coden: REPT ZFK-243,P86

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$; measured $\gamma\gamma(t)$. ^{182}Ta levels deduced $T_{1/2}$.

Keynumber: 1972SCYT

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

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

Keynumber: 1972RI14

Reference: Nucl.Phys. A198, 430 (1972)

Authors: P.Riehs, H.P.Axmman, J.Murray, B.W.Thomas

Title: Low-Energy γ -Rays from Resonance Neutron Capture in $^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, (n,n') , 4 eV <E <200 eV; measured relative $I\gamma$. ^{182}Ta deduced resonances, J . $^{181\text{m}}\text{Ta}$ deduced $T_{1/2}$. Natural target, Ge(Li) detector.

Keynumber: 1971YOZY

Coden: REPT ORNL-TM-3436, K J Yost, 7/29/71

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}, \text{W}(n,\gamma), E=\text{thermal-1 MeV}$; measured $\sigma(E;E\gamma)$.

Keynumber: 1971OTZW

Coden: REPT ENDF-150, E H Ottewitte, 5/25/72

Keyword abstract: NUCLEAR REACTIONS $^{181, 182}\text{Ta}(n,X)$, (n,n) , $(n,\gamma), E < 17 \text{ MeV}$; analyzed, evaluated σ data. $^{182, 183}\text{Ta}$ deduced resonance parameters.

Keynumber: 1971NAZW

Reference: Proc.3rd Intern.Conf.Neutron Cross Sections and Technology, Knoxville, Vol.1, p.259 (1971)

Authors: R.J.Nagle, J.H.Landrum, M.Lindner

Title: Neutron Capture Cross Sections in the MeV Range

Keyword abstract: NUCLEAR REACTIONS ^{114}Cd , ^{181}Ta , ^{186}W , $^{185, 187}\text{Re}$, $^{191, 193}\text{Ir}$, ^{197}Au , ^{232}Th , ^{237}Np , $^{238}\text{U}(n,\gamma), E=0.1-3 \text{ MeV}$; measured $\sigma(E)$.

Keynumber: 1971BR57

Reference: Acta Phys.Pol. B2, 489 (1971)

Authors: J.S.Brzosko, E.Gierlik, A.Soltan, Jr., Z.Szeflinski, Z.Wilhelmi

Title: Measurement of γ -Ray Spectra Accompanying Radiative Capture of Nucleons

Keyword abstract: NUCLEAR REACTIONS $^{115}\text{In}, \text{Sb}$, ^{127}I , ^{133}Cs , ^{159}Tb , ^{165}Ho , ^{181}Ta , $^{197}\text{Au}, \text{Tl}$, $^{238}\text{U}(n,\gamma), E \text{ approx } 400 \text{ keV}$; measured $\sigma(E\gamma)$. ^{115}In , ^{181}Ta , $^{197}\text{Au}(n,\gamma), E=0.03-1.4 \text{ MeV}$; measured $\sigma(E;E\gamma)$. $^{115}\text{In}, \text{Ag}$, ^{181}Ta , $^{197}\text{Au}(p,\gamma), E \text{ approx } 4 \text{ MeV}$; measured $\sigma(E\gamma)$.

Keynumber: 1971AXZZ

Coden: REPT INDC(Aus)-2/g,P11,12/15/71

Keyword abstract: NUCLEAR REACTIONS ^{167}Er , $^{181}\text{Ta}(n,\gamma)$, E not given; measured $I\gamma$. ^{168}Er , ^{182}Ta deduced resonances, J .

Keynumber: 1970EI04

Reference: Nucl.Phys. A147, 150 (1970)

Authors: J.Eichler, F.Djadali

Title: Measurement of the Average Circular γ -Polarization and Determination of Spins for Compound States Formed in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{95}Mo , ^{113}Cd , ^{115}In , 121 , ^{123}Sb , ^{127}I , ^{133}Cs , ^{141}Pr , 155 , ^{157}Gd , ^{159}Tb , ^{165}Ho , ^{181}Ta , ^{199}Hg (polarized n, γ), E = thermal; measured average γ -circular polarization. ^{96}Mo , ^{114}Cd , ^{116}In , 122 , ^{124}Sb , ^{128}I , ^{134}Cs , ^{142}Pr , 156 , ^{158}Gd , ^{160}Tb , ^{166}Ho , ^{182}Ta , ^{200}Hg deduced J for compound state. Natural targets.

Keynumber: 1970BU04

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 34, 89 (1970); Bull.Acad.Sci.USSR, Phys.Ser. 34, 85 (1971)

Authors: N.A.Burgov, G.V.Danilyan, I.Z.Efimov, O.D.Kazachkovskii, V.S.Pavlov

Title: Spectra of γ Rays from Capture of Resonance Neutrons by Rh, Ta and Au Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{181}Ta , ^{197}Au (n, γ),E=epithermal; measured $\sigma(E\gamma)$. ^{104}Rh , ^{182}Ta , ^{198}Au resonances deduced average γ -width;levels deduced J, π .

Keynumber: 1969WA05

Reference: Nucl.Phys. A132, 161 (1969)

Authors: O.A.Wasson, R.E.Chrien, M.A.Lone, M.R.Bhat, M.Beer

Title: Resonance Neutron Capture in ^{181}Ta (n, γ) ^{182}Ta

Keyword abstract: NUCLEAR REACTIONS ^{181}Ta (n, γ), E <350 eV; measured $\sigma(E;E\gamma)$, $E\gamma$, $I\gamma$; deduced Q. ^{182}Ta deduced levels, J, π , distribution of $I\gamma$ over capturing states, correlation coefficient between $I\gamma(I)$. Natural target. Ge(Li) detector.

Keynumber: 1969GOZX

Reference: Thesis, Univ.Amsterdam (1969); Priv.Comm. (March 1969)

Authors: P.F.A.Goudsmit

Title: Properties of the Deformed Nuclides Produced in the Decay of ^{166}Ho , $^{166\text{m}}\text{Ho}$, ^{166}Tm , ^{166}Yb , ^{180}Os , ^{180}Re , ^{181}Os and $^{181\text{m}}\text{Os}$ and by Capture of Thermal Neutrons in ^{181}Ta

Keyword abstract: RADIOACTIVITY ^{166}Tm ; measured $E\gamma$, $I\gamma$,I(ce), $E\beta$, $I\beta$, $\beta\gamma$ -coin. Deduced ICC,log ft. 166 , $^{166\text{m}}\text{Ho}$; measured $E\gamma$, $I\gamma$. Deduced log ft. ^{166}Yb ; measured $E\gamma$, $I\gamma$,I(ce). ^{180}Os ; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ (t). Deduced log ft. ^{180}Re ; measured $E\gamma$, $I\gamma$,I(ce), $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, $E\beta$, $\beta\gamma$ -coin. Deduced ICC,log ft. ^{181}Os ; measured $E\gamma$, $I\gamma$,I(ce), $\beta\gamma$ -coin, $\gamma\gamma$ -coin. Deduced ICC. $^{181\text{m}}\text{Os}$; measured $E\gamma$, $I\gamma$, I(ce), $\gamma\gamma$ -coin, $\gamma\gamma(t)$. Deduced ICC. ^{166}Er deduced levels,J, π . ^{180}Re , ^{180}W , ^{181}Re ; deduced levels, $T_{1/2}$,J, π .

Keyword abstract: NUCLEAR REACTIONS ^{181}Ta (n, γ); measured $\sigma(E(\text{ce}))$. Deduced ICC. ^{182}Ta deduced γ -multipolarity.

Keynumber: 1969BR34

Reference: Can.J.Phys. 47, 2849 (1969)

Authors: J.S.Brzosko, E.Gierlik, A.Soltan,Jr., Z.Wilhelmi

Title: Effect of the Pigmy Resonance on the Calculations of the Neutron Capture Cross Section

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , ^{181}Ta , ^{197}Au (n, γ),E <6 keV; calculated $\sigma(E;E\gamma)$; analyzed pigmy resonance effects.

Keynumber: 1968BRZW

Coden: REPT INR-P-967,J Brzosko

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$; calculated $\sigma(E)$. ^{104}Rh , ^{128}I , ^{182}Ta , ^{198}Au deduced level spacing, level-width, pigmy resonance effects.

Keynumber: 1968AL23

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 32, 1990 (1968); Bull.Acad.Sci.USSR, Phys.Ser. 32, 1833 (1969)

Authors: Y.K.Alksnis, M.K.Balodis, P.T.Prokofev

Title: Low-Lying Excited States of ^{182}Ta

Keyword abstract: NUCLEAR REACTIONS $^{181}\text{Ta}(n,\gamma)$, E=thermal; measured $E(\text{ce})$, $I(\text{ce})$. ^{182}Ta deduced levels, J, π , γ -multipolarity.

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 $E\gamma$; deduced Q. Natural targets.

Keynumber: 1965LU04

Reference: Nucl.Phys. 67, 321(1965)

Authors: B.Lundberg, N.Starfelt

Title: γ -Rays from the Capture in Ta and Au of Neutrons from 1 to 4 MeV

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