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23 reference(s) found :

Keynumber: 2001VA11

Reference: Yad.Fiz. 64, No 2, 195 (2001); Phys.Atomic Nuclei 64, 153 (2001)

Authors: E.V.Vasilieva, A.M.Sukhovej, V.A.Khitrov

Title: Direct Experimental Estimate of Parameters That Determine the Cascade Gamma Decay of Compound States of Heavy Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{123}Te , ^{127}I , ^{149}Sm , ^{155}Gd , ^{159}Tb , ^{169}Tm , ^{180}Hf , ^{189}Os , ^{191}Ir , ^{195}Pt , $^{199}\text{Hg}(n,\gamma)$, E=thermal; measured $E\gamma$, 2-step photon cascades. ^{114}Cd , ^{124}Te , ^{128}I , ^{150}Sm , ^{156}Gd , ^{160}Tb , ^{170}Tm , ^{181}Hf , ^{190}Os , ^{192}Ir , ^{196}Pt , ^{200}Hg deduced level densities vs excitation energy, sum of radiative strengths for E1 and M1 transitions. Comparison with Statistical Model calculations.

Keynumber: 2000DO11

Reference: Nucl.Phys. A672, 3 (2000)

Authors: C.Doll, H.Lehmann, H.G.Borner, T.von Egidy

Title: Lifetime Measurement in ^{124}Te

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma)$, E=reactor; measured Doppler-shifted $E\gamma$, $I\gamma$. ^{124}Te deduced levels $J,\pi,T_{1/2}$, B(E2), collective features. Gamma-ray induced Doppler broadening technique. Comparisons with theory.

Keynumber: 1999SU03

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

Authors: A.M.Sukhovi, 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 $I\gamma$; deduced non-exponential level densities.

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.Sukhovi, 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.Sukhovi, 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 ,

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

Keynumber: 1995GE02

Reference: Phys.Lett. 351B, 82 (1995)

Authors: R.Georgii, P.von Neumann-Cosel, T.von Egidy, M.Grinberg, V.A.Khitrov, J.Ott, P.Prokofev, A.Richter, W.Schauer, C.Schlegel, R.Schulz, L.J.Simonova, Ch.Stoyanov, A.M.Sukhovej, A.V.Voinov

Title: Unusual Neutron-Capture Gamma-Ray Cascade in ¹²⁴Te: A fingerprint of octupole-coupled multiphonon states

Keyword abstract: NUCLEAR REACTIONS ¹²³Te(n,γ),E=thermal; measured γγ-coin,Eγ,Iγ. ¹²⁴Te (γ,γ),E=3.5 MeV bremsstrahlung; measured Eγ,Iγ. ¹²⁴Te deduced levels,transitions,B(λ),configuration. Quasiparticle-phonon model.

Keynumber: 1994VA44

Reference: Bull.Rus.Acad.Sci.Phys. 58, 1896 (1994)

Authors: E.V.Vasilieva, A.V.Voinov, O.D.Kestarov, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov, Yu.V.Kholnov

Title: Cascade γ-Decay of the ¹²⁴Te Compound State Excited by Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ¹²³Te(n,γ),E=thermal; measured Eγ,Iγ. ¹²⁴Te deduced levels,cascade decay characteristics.

Keynumber: 1994KHZY

Reference: Contrib. 4th Int.Conf.on Selected Topics in Nuclear Structure, Dubna, p.105 (1994); JINR E4-94-168 (1994)

Authors: V.A.Khitrov, Yu.V.Kholnov, O.D.Kiostarova, Yu.P.Popov, A.M.Sukhovi, E.V.Vasilieva, A.V.Voinov

Title: Investigation of the ¹²⁴Te(n,2γ)-Reaction Decay

Keyword abstract: NUCLEAR REACTIONS ¹²³Te(n,γ),E=thermal; measured Eγ,γγ-coin. ¹²⁴Te deduced levels. Coincidence pulse amplitude sum method,Ge(Li) detectors.

Keynumber: [1992XI01](#)

Reference: Phys.Rev. C45, 2487 (1992)

Authors: Y.Xia, Th.W.Gerstenhofer, S.Jaag, F.Kappeler, K.Wisshak

Title: Neutron Cross Sections of ¹²²Te, ¹²³Te, and ¹²⁴Te between 1 and 60 keV

Keyword abstract: NUCLEAR REACTIONS ⁹³Nb, ¹²², ¹²³, ¹²⁴Te(n,γ),E=1-60 keV; measured capture σ relative to gold standard. ¹²², ¹²³, ¹²⁴Te(n,X),E=10-100 keV; measured total σ.

Keynumber: [1992WI05](#)

Reference: Phys.Rev. C45, 2470 (1992)

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

Title: Neutron Capture in ¹²², ¹²³, ¹²⁴Te: Critical test for s process studies

Keyword abstract: NUCLEAR REACTIONS ¹²², ¹²³, ¹²⁴, ¹²⁵, ¹²⁶Te(n,γ),E=10-200 keV; measured capture σ relative to gold standard; deduced Maxwellian averaged σ between kT=10 and 100 keV.

Keynumber: 1992PRZX

Reference: Program and Thesis, Proc.42nd Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Alma-Ata, p.66 (1992)

Authors: P.T.Prokofev, M.R.Beitinsh, V.A.Bondarenko, I.L.Kuvaga

Title: The ^{124}Te $\gamma\gamma$ -Coincidence Spectra in (n, γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma),E=\text{thermal}$; measured $\gamma\gamma$ -coin. ^{124}Te deduced levels. Enriched target.

Keynumber: [1991CA13](#)

Reference: Phys.Rev. C44, 523 (1991)

Authors: R.F.Casten, J.-Y.Zhang, B.-C.Liao

Title: Average Resonance Capture Study of ^{124}Te

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma),E=2,24\text{ keV}$; measured $E\gamma, I\gamma$, average resonance capture. ^{124}Te deduced levels, J, π .

Keynumber: 1988PE06

Reference: J.Phys.(London) G14, Supplement S97 (1988)

Authors: P.Petkov, W.Andrejscheff, Ch.Protochristov, W.D.Hamilton, F.Hoyler, V.V.Martynov

Title: Absolute E0,E1 and E2 Transition Rates in Even-Even Nuclei Obtained in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS $^{167}\text{Er}, ^{195}\text{Pt}, ^{123}\text{Te}(n,\gamma),E=\text{thermal}$; measured $\gamma\gamma$ (θ,t), time-related γ -spectra. $^{168}\text{Er}, ^{196}\text{Pt}, ^{124}\text{Te}$ levels deduced $T_{1/2}, B(\lambda)$.

Keyword abstract: NUCLEAR STRUCTURE ^{172}Yb ; analyzed data; deduced level characteristics, $B(\lambda)$.

Keynumber: 1983ROZX

Reference: Bull.Am.Phys.Soc. 28, No.7, 998, ED6 (1983)

Authors: S.J.Robinson, W.D.Hamilton, D.M.Snelling

Title: Thermal Neutron Capture and Nuclear Orientation Studies of ^{124}Te

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma),E=\text{thermal}$; measured $\gamma\gamma$ -coin, $\gamma\gamma(\theta), \gamma(\theta)$. ^{124}Te deduced levels, J, π , multipole mixing.

Keyword abstract: RADIOACTIVITY $^{124}\text{Sb}(\beta^-)$; measured $\gamma\gamma$ -coin, $\gamma\gamma(\theta), \gamma(\theta)$, oriented nuclei. ^{124}Te deduced levels, J, π , first-forbidden β -transition multipole mixing.

Keynumber: 1983RO13

Reference: J.Phys.(London) G9, 961 (1983)

Authors: S.J.Robinson, W.D.Hamilton, D.M.Snelling

Title: Levels and Transitions in ^{124}Te following Thermal-Neutron Capture by ^{123}Te and the β Decay of Oriented ^{124}Sb

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma),E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma(\theta)$, oriented nuclei. ^{124}Te levels deduced J, π, δ . Phonon, interacting boson model interpretations.

Keyword abstract: RADIOACTIVITY $^{124}\text{Sb}(\beta^-)$; measured $E\gamma, I\gamma, \gamma(\theta)$, oriented nuclei; deduced β -transition multipole components. ^{124}Te levels deduced J, π, δ . Phonon, interacting boson model interpretations.

Keynumber: 1982BO20

Reference: Yad.Fiz. 35, 675 (1982)

Authors: V.I.Bondarenko, M.G.Urin

Title: Average Total Radiative Widths of Neutron Resonances and the E1 Transitions between the Nuclear Compound States

Keyword abstract: NUCLEAR REACTIONS ^{94}Mo , ^{117}Sn , ^{123}Sb , ^{123}Te , ^{143}Nd , ^{198}Hg , 230 , ^{232}Th , 231 , ^{233}Pa , 234 , ^{238}U , 239 , ^{242}Pu , ^{241}Am , 244 , $^{246}\text{Cm}(n,\gamma)$, E not given; analyzed E1 photoabsorption data. ^{95}Mo , ^{118}Sn , ^{124}Sb , ^{124}Te , ^{144}Nd , ^{199}Hg , 231 , ^{233}Th , 232 , ^{234}Pa , 235 , ^{239}U , 240 , ^{243}Pu , ^{242}Am , 245 , ^{247}Cm resonances deduced total $\Gamma\gamma$. Semi-microscopic shell model.

Keynumber: 1975SMZO

Coden: REPT ANL-75-75,P145

Keyword abstract: NUCLEAR REACTIONS $^{123\text{m}}\text{Te}(n,\gamma)$, E=thermal; measured γ -spectra. ^{124}Te deduced levels.

Keynumber: 1975HA05

Reference: Phys.Rev. C11, 827 (1975)

Authors: B.Hamermesh, R.K.Smither

Title: Capture Gamma Rays from High-Spin States Excited by Thermal-Neutron Capture in Nuclear Isomers

Keyword abstract: NUCLEAR REACTIONS $^{123\text{m}}\text{Te}(n,\gamma)$, E=thermal; measured $E\gamma$. ^{124}Te deduced transitions, J.

Keynumber: 1974BE53

Reference: Yad.Fiz. 20, 252 (1974); Sov.J.Nucl.Phys. 20, 133 (1975)

Authors: A.A.Bergman, S.A.Romanov

Title: Study of the Cross Sections for Radiative Capture of Neutrons by Tellurium Isotopes and their Application to the Theory of the Origin of the Elements

Keyword abstract: NUCLEAR REACTIONS 122 , 123 , 124 , 125 , 126 , 128 , $^{130}\text{Te}(n,\gamma)$, E=0.1-60 keV; measured $\sigma(E,E\gamma)$.

Keynumber: 1969BU05

Reference: Phys.Rev. 179, 1113 (1969)

Authors: D.L.Bushnell, R.P.Chaturvedi, R.K.Smither

Title: Neutron-Capture Gamma-Ray Studies of the Level Structure of the Te^{124} Nucleus

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma)$, E=thermal; measured $E\gamma$, I γ ; deduced Q. ^{124}Te deduced levels, J, π . Ge(Li) detector, bent-crystal spectrometer.

Keynumber: 1968CHZX

Reference: Priv.Comm. (1968)

Authors: R.P.Chaturvedi

Keyword abstract: NUCLEAR REACTIONS $^{123}\text{Te}(n,\gamma)$, E not given; measured $E\gamma$, I γ ; deduced Q.

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 , $^{207}\text{Pb}(n,\gamma)$, $E = \text{thermal}$; measured $E\gamma$; deduced Q . Natural targets.

Keynumber: 1966VO04

Reference: Nucl.Phys. 82, 441 (1966)

Authors: R.H.Vogt

Title: Gamma-Ray Spectra of ^{124}Te , ^{164}Dy , ^{178}Hf and ^{183}W from the Radiative Capture of Neutrons at Resonances

Keyword abstract: NUCLEAR REACTIONS ^{123}Te , ^{163}Dy , ^{177}Hf , $^{182}\text{W}(n,\gamma)$ $1 < E < 5$ eV; measured $E\gamma$, $\gamma\gamma$ - coin. ^{124}Te , ^{164}Dy , ^{178}Hf , ^{183}W deduced levels. Natural targets.
