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29 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.Sukhovoj, 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}Hg(n,γ),E=thermal; measured Eγ, 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: 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}W(n,γ),E=thermal; analyzed Iγ; 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.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}Hg(n,γ),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}Au(n,γ),E=thermal; analyzed γ spectra,γγ-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: 1997KHZZ
Reference: Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.1, p.436 (1997)

Authors: V.A.Khitrov, A.M.Sukhovoj, A.V.Voinov, E.V.Vasilieva
Title: The Excitation and Decay Peculiarities of the 1^+ States in ^{200}Hg by Cascade γ-Transitions
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured Eγ,Iγ.

Keynumber: 1996VA24
Reference: Bull.Rus.Acad.Sci.Phys. 60, 1706 (1996)
Authors: E.V.Vasilieva, A.V.Voinov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov
Title: Cascades of γ Transitions in the ^{200}Hg Nucleus at a Thermal Neutron Capture by ^{199}Hg Nucleus
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured Eγ,Iγ,γγ-coin. ^{200}Hg deduced levels,level density,cascade relative intensities related features,possible resonance effects. Model comparisons.

Keynumber: 1989AH01
Reference: J.Phys.(London) G15, 93 (1989)
Authors: S.T.Ahmad, W.D.Hamilton, P.Van Isacker, S.A.Hamada, S.J.Robinson
Title: Mixed-Symmetry States and the Structure of ^{200}Hg
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured E(γ),I(γ),γγ-coin,γγ(θ). ^{200}Hg deduced levels,J,π,δ(E2/M1),X(E0/E2),mixed-symmetry. Enriched target,Ge(Li) detectors.

Keynumber: 1987BE10
Reference: Nucl.Instrum.Methods Phys.Res. A256, 377 (1987)
Authors: A.G.Beyerle, K.L.Hull
Title: Neutron Detection with Mercury Iodide Detectors
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured capture γ-spectra; deduced detector sensitivity to thermal neutrons.

Keynumber: **1985BE32**
Reference: Phys.Rev. C32, 738 (1985)
Authors: H.Beer, R.L.Macklin
Title: ^{198}, ^{199}, ^{200}, ^{201}, ^{202}, ^{204}Hg(n,γ) Cross Sections and the Termination of s-Process Nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{198}, ^{199}, ^{200}, ^{201}, ^{202}, ^{204}Hg(n,γ),E=2.6-500 keV; measured capture σ(E),γ yields; deduced astrophysical s-process termination,n-process nucleosynthesis age,Maxwellian averaged σ. ^{199}, ^{200}, ^{201}, ^{202}, ^{203}, ^{205}Hg deduced resonances,Γγ, (gΓn), (gΓnΓγ)/Γ,strength functions.

Keynumber: 1979BR25
Reference: Nucl.Instrum.Methods 166, 243 (1979)
Authors: F.Braumandl, K.Schreckenbach, T.von Egidy
Title: Precision Measurements of Neutron Binding Energies of ^{28}Al, ^{92}Zr, ^{114}Cd, ^{165}Dy, ^{168}Er, ^{200}Hg and ^{239}U
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{91}Zr, ^{113}Cd, ^{164}Dy, ^{167}Er, ^{199}Hg, ^{238}U (n,γ),E=reactor; measured Eγ,I(ce). ^{28}Al, ^{92}Zr, ^{114}Cd, ^{165}Dy, ^{168}Er, ^{200}Hg, ^{239}U deduced B(n). Bent crystal Gams,pair,β-spectrometers.

Keynumber: 1978ZA10
Reference: Yad.Fiz. 27, 1534 (1978); Sov.J.Nucl.Phys. 27, 808 (1978)

Authors: D.F.Zaretskii, V.K.Sirotkin
Title: Total Radiative Widths of Neutron Resonances
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{55}Mn, ^{68}Zn, ^{78}Se, ^{88}Sr, ^{96}Mo, ^{107}Ag, ^{116}Sn, ^{129}I, ^{143}Nd, ^{149}Sm, ^{161}Dy, ^{169}Tm, ^{179}Hf, ^{191}Ir, ^{199}Hg, ^{203}Tl, ^{235}, ^{238}U, ^{243}Am(n,γ); calculated total Γγ assuming dipole transitions.

Keynumber: 1977SE03
Reference: Z.Phys. A280, 239 (1977)
Authors: H.Seyfarth, N.Wust, O.W.B.Schult
Title: On the Intensities of K X Rays Following Thermal Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{155}Gd, ^{176}Lu, ^{199}Hg(n,γ),E=slow; measured absolute I (K X-ray).

Keynumber: 1977BRZM
Coden: JOUR VDPEA No6/1977,808,B2-9,Braumandl
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg, ^{113}Cd(n,γ); measured σ(E,Eγ),ce-spectra; deduced Q. ^{114}Cd, ^{200}Hg deduced levels,neutron binding energy.

Keynumber: 1975LO03
Reference: Nucl.Phys. A243, 413 (1975)
Authors: M.A.Lone, E.D.Earle, G.A.Bartholomew
Title: Resonance Neutron Capture in ^{198}, ^{199}, ^{201}Hg
Keyword abstract: NUCLEAR REACTIONS ^{198}, ^{199}, ^{201}Hg(n,γ),E <211 eV; measured Eγ,Iγ. ^{199}, ^{200}, ^{202}Hg deduced levels,J,γ-ray strength functions. Natural target. Ge(Li) detector.

Keynumber: 1974SC33
Reference: Z.Phys. 271, 97 (1974)
Authors: S.Schumann, M.Waldschmidt
Title: Beobachtung der inneren Paarbildung an ^{200}Hg nach Neutroneneinfang
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E <7 MeV; measured ce spectrum. ^{200}Hg deduced transitions.

Keynumber: 1974BR02
Reference: Phys.Rev. C9, 366 (1974); Erratum Phys.Rev. C9, 2088 (1974)
Authors: D.Breitig, R.F.Casten, G.W.Cole
Title: Low-Spin States in ^{200}Hg Studied with the (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal,33.5,129.7,175.1 eV; measured Eγ,Iγ,γγ-(θ). ^{200}Hg deduced levels,transitions,J,π,ICC,γ-multipolarities, B(E2),B(M1),γ-mixing.

Keynumber: 1973CAZC
Coden: CONF Munich(Nucl Phys),Vol1 P236
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ); measured Eγ,γγ(θ). ^{200}Hg deduced levels,J,π.

Keynumber: 1973BRZT
Coden: JOUR BAPSA 18 700 JK6
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ); ^{200}Hg deduced levels.

Keynumber: 1973BRXE
Coden: REPT EANDC(US)-186'U' P62
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ); measured Eγ. ^{200}Hg deduced levels.

Keynumber: 1973BRWV
Coden: REPT USNDC-7 P49
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ); measured Eγ,Iγ. ^{200}Hg deduced levels,J,π.

Keynumber: 1972SCYT
Coden: CONF Teddington(Atomic Masses, Fund Constants),P123
Keyword abstract: NUCLEAR REACTIONS ^{107}, ^{109}Ag, ^{139}La, ^{150}Sm, ^{151}, ^{152}Eu, ^{155}, ^{157}Gd, ^{159}Tb, ^{168}, ^{171}, ^{174}Yb, ^{178}Hf, ^{181}, ^{182}Ta, ^{197}, ^{198}Au, ^{199}Hg, ^{232}Th(n,γ); measured Eγ. ^{108}, ^{110}Ag, ^{140}La, ^{151}Sm, ^{152}, ^{153}Eu, ^{156}, ^{158}Gd, ^{160}Tb, ^{169}, ^{172}, ^{175}Yb, ^{179}Hg, ^{182}, ^{183}Ta, ^{198}, ^{199}Au, ^{200}Hg, ^{233}Th deduced transitions.

Keynumber: 1971VOZR
Coden: REPT EANDC(E) 140 U,P8,T Von Egidy,12/30/71
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E not given; measured Eγ,Iγ,I(ce). ^{200}Hg deduced levels,ICC.

Keynumber: 1971MA10
Reference: Z.Naturforsch. 26a, 405 (1971)
Authors: W.Mampe, T.von Egidy, W.Kaiser, K.Schreckenbach
Title: Hochenergetische Konversionselektronen und das Niveauschema von ^{200}Hg
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=slow; measured E(ce),I(ce). ^{200}Hg deduced levels,ICC,γ-multipolarity,J,π,γ-branching.

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: 1969SC03
Reference: Z.Physik 218, 95 (1969)
Authors: O.W.B.Schult, W.Kaiser, W.Mampe, T.v.Egidy
Title: Hg^{199}(n,ce)Hg^{200} Studies
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured I(ce). ^{200}Hg deduced levels, J,π,γ-mixing.

Keynumber: 1969LO04
Reference: Z.Physik 226, 13 (1969)
Authors: K.E.G.Lobner, D.Rabenstein, O.W.B.Schult
Title: The Spin of the 1029 keV Level in ^{200}Hg

Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=thermal; measured Eγ,Iγ,γγ(θ). ^{200}Hg level deduced J.

Keynumber: 1967SC30
Reference: Phys.Rev. 164, 1548 (1967)
Authors: O.W.B.Schult, W.R.Kane, M.A.J.Mariscotti, J.M.Simic
Title: Gamma Rays from the Hg^{199}(n,γ)Hg^{200} Reaction and Energy Levels in Hg^{200}
Keyword abstract: NUCLEAR REACTIONS ^{199}Hg(n,γ),E=0.15-8.04 MeV; ^{201}Hg(n,γ),E=resonance; measured Eγ,Iγ; deduced Q. ^{200}Hg deduced levels,J,B(M1).

Keynumber: 1967RA24
Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba Press, p.278(1967)
Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai
Title: Determination of (n,γ) Reaction Q Values from Capture γ-Ray Spectra
Keyword abstract: NUCLEAR REACTIONS ^{6}Li, ^{7}Li, ^{9}Be, ^{10}B, ^{12}C, ^{14}N, ^{19}F, ^{23}Na, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{27}Al, ^{28}Si, ^{31}P, ^{32}S, ^{35}Cl, ^{40}Ca, ^{45}Sc, ^{48}Ti, ^{51}V, ^{55}Mn, ^{54}Fe, ^{56}Fe, ^{59}Co, ^{58}Ni, ^{60}Ni, ^{63}Cu, ^{65}Cu, ^{66}Zn, ^{67}Zn, ^{73}Ge, ^{76}Se, ^{85}Rb, ^{87}Rb, ^{89}Y, ^{93}Nb, ^{103}Rh, ^{113}Cd, ^{123}Te, ^{133}Cs, ^{139}La, ^{141}Pr, ^{149}Sm, ^{153}Eu, ^{157}Gd, ^{159}Tb, ^{165}Ho, ^{167}Er, ^{169}Tm, ^{181}Ta, ^{182}W, ^{195}Pt, ^{197}Au, ^{199}Hg, ^{203}Tl, ^{207}Pb(n,γ), E = thermal; measured Eγ; deduced Q. Natural targets.

Keynumber: 1966RA23
Reference: RPI-328-68, p.33(1966)
Authors: E.R.Rae, W.Moyer, R.R.Fullwood, J.L.Andrews
Title: Gamma-Ray Spectra from Resonant Neutron Capture in Mercury, Tungsten and Barium (Germanium Spectrometer)
Keyword abstract: NUCLEAR REACTIONS ^{135}Ba, ^{182}, ^{183}W, ^{198}, ^{199}Hg(n,γ),E=4-175 eV; measured Eγ,Iγ,resonance capture. ^{136}Ba, ^{183}, ^{184}W, ^{199}, ^{200}Hg deduced levels.
