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70 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: 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: 1999HO33

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

Authors: N.E.Holden

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

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

Keynumber: 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: 1998SUZV

Reference: INDC(CPR)-047/L, p.77 (1998)

Authors: X.Sun, Z.Zhang, J.Zhang, J.Zhou, L.Cao, Y.Han, Q.Shen

Title: Calculation of Neutron Induced Reaction on ^{113}Cd in Energy Region from 0.01 to 20 MeV

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,X)$, (n,n), (n, γ), (n,2n), (n,p), E <20 MeV;

calculated σ . $^{113}\text{Cd}(n,n),E=6-15\text{ MeV}$; calculated $\sigma(\theta)$. Comparisons with data.

Keynumber: [1998SE21](#)

Reference: Phys.Rev. C58, 2977 (1998)

Authors: S.J.Seestrom, J.D.Bowman, B.E.Crawford, P.P.J.Delheij, C.M.Frankle, C.R.Gould, D.G.Haase, M.Inuma, J.N.Knudson, P.E.Koehler, L.Y.Lowie, A.Masaike, Y.Masuda, Y.Matsuda, G.E.Mitchell, S.I.Penttila, Yu.P.Popov, H.Postma, N.R.Roberson, E.I.Sharapov, H.M.Shimizu, D.A.Smith, S.L.Stephenson, Y.F.Yen, V.W.Yuan

Title: Parity Nonconservation in Neutron Capture on ^{113}Cd

Keyword abstract: NUCLEAR REACTIONS Cd, $^{113}\text{Cd}(\text{polarized } n,\gamma),E=7-520\text{ eV}$; measured E_γ, I_γ , transmission spectra, total capture σ helicity dependence. ^{113}Cd deduced resonances J, π , widths, parity-violating asymmetries.

Keynumber: 1997SU29

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

Authors: A.M.Sukhvoi, 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 , $^{197}\text{Au}(n,\gamma),E=\text{thermal}$; 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: [1997GU17](#)

Reference: Phys.Rev. C56, 1266 (1997)

Authors: F.Gunsing, K.Athanassopoulos, F.Corvi, H.Postma, Yu.P.Popov, E.I.Sharapov

Title: Spins of Resonances in Reactions of Neutrons with ^{238}U and ^{113}Cd

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , $^{238}\text{U}(n,\gamma),E=7-458\text{ eV}$; measured E_γ, I_γ . ^{239}U , ^{114}Cd deduced resonance spins, parity nonconservation implications. ToF technique, pulse beam.

Keynumber: 1996VO05

Reference: Phys.Lett. 368B, 191 (1996)

Authors: O.K.Vorov

Title: Limits of Time-Reversal Violating Interaction from Compound Nuclear Experiments

Keyword abstract: NUCLEAR REACTIONS $^{27}\text{Al}(p,\alpha)$, $^{113}\text{Cd}(n,\gamma),E$ not given; calculated time reversal invariance violating interaction matrix elements; deduced ρ -exchange associated parameter.

Keynumber: 1996VE07

Reference: Bull.Rus.Acad.Sci.Phys. 60, 1793 (1996)

Authors: V.A.Vesna, I.S.Okunev, E.V.Shulgina

Title: Integral P-Even Circular Polarization in $(n\gamma)$ Reactions on ^{117}Sn , ^{113}Cd , ^{139}La , $(\text{nat})\text{Br}$, ^{35}Cl Nuclei and Density of Final Nuclear States as a Function of Their Angular Momenta

Keyword abstract: NUCLEAR REACTIONS ^{117}Sn , ^{113}Cd , ^{139}La , Br , $^{35}\text{Cl}(n,\gamma),E$ not given; analyzed γ P-even, P-odd integral CP. ^{118}Sn , ^{114}Cd , ^{140}La , 80 , ^{82}Br , ^{36}Cl ; deduced level structure, density roles.

Keynumber: 1996VA25

Reference: Bull.Rus.Acad.Sci.Phys. 60, 1710 (1996)

Authors: E.V.Vasilieva, A.V.Voinov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov

Title: Two-Quantum Cascades at a Thermal Neutron Capture in ^{114}Cd

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma),E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma\text{-coin.}$ ^{114}Cd deduced levels, level density, cascade relative intensities related features, possible vibrational structure. Model comparisons.

Keynumber: 1996MC10

Reference: Nucl.Instrum.Methods Phys.Res. A381, 498 (1996)

Authors: D.S.McGregor, J.T.Lindsay, R.W.Olsen

Title: Thermal Neutron Detection with Cadmium(1-x)Zinc(x) Telluride Semiconductor Detectors

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma),E=\text{thermal}$; measured $E\gamma, I\gamma$; deduced CdZnTe neutron detector sensitivity.

Keynumber: 1995GU26

Reference: Nucl.Instrum.Methods Phys.Res. A365, 410 (1995)

Authors: F.Gunsing, F.Corvi, H.Postma, F.Becvar

Title: The Simulation of Gamma Spectra of $^{113}\text{Cd}(n,\gamma)$ for Neutron Resonance Spin Assignment

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma),E$ not given; calculated $E\gamma, I\gamma$ following capture. ^{114}Cd levels deduced $I\gamma$ spin dependence. Comparison with experiment.

Keynumber: 1994LI38

Reference: Z.Phys. A349, 147 (1994)

Authors: L.L.Litvinsky

Title: Analysis of Average Primary Gamma-Transition Intensities and Cross Sections of the $^{113}\text{Cd}(n,\gamma)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma),E=1.9\text{-}200$ keV; analyzed $E\gamma, I\gamma, \text{capture } \sigma(E)$ data. ^{114}Cd deduced average resonance, M1 giant resonance parameters, E1 strength function.

Keynumber: 1994KR20

Reference: Fiz.Elem.Chastits At.Yadra 25, 1444 (1994); Sov.J.Part.Nucl 25, 612 (1994)

Authors: P.A.Krupchitsky

Title: Parity Violation in Nuclear Reactions with Polarized Neutrons

Keyword abstract: NUCLEAR REACTIONS $^2, ^1\text{H}, ^{35}\text{Cl}, ^{57}\text{Fe}, ^{79}, ^{81}\text{Br}, ^{111}, ^{113}\text{Cd}, ^{117}\text{Sn}, ^{139}\text{La}, ^{207}\text{Pb}(\text{polarized } n,\gamma),E=\text{thermal, resonance}$; compiled, reviewed parity violation data, analyses; deduced dominant mechanism.

Keynumber: 1994KHZX

Reference: Contrib. 4th Int.Conf.on Selected Topics in Nuclear Structure, Dubna, p.106 (1994); JINR E4-94-168 (1994)

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

Title: The Two-Gamma Quanta Cascade of the ^{114}Cd Compound-State Decay

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma),E=\text{thermal}$; measured $E\gamma, \gamma\gamma\text{-coin.}$ ^{114}Cd deduced levels. Coincidence pulse amplitude sum method, Ge(Li) detectors.

Keynumber: [1994FR14](#)

Reference: Phys.Rev. C50, 2774 (1994)

Authors: C.M.Frankle, E.I.Sharapov, Yu.P.Popov, J.A.Harvey, N.W.Hill, L.W.Weston

Title: Neutron Resonance Spectroscopy on ^{113}Cd to $E(n) = 15$ keV

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,n)$, (n,γ) , (n,X) , $E=10$ eV-15 keV; measured transmission,total,capture $\sigma(E)$. ^{114}Cd deduced levels, $L,g\Gamma_n$,average level spacing,s-,p-wave strength functions. Enriched targets,tof.

Keynumber: [1993BA05](#)

Reference: Phys.Rev.Lett. 70, 1216 (1993)

Authors: A.L.Barabanov, E.I.Sharapov, V.R.Skoy, C.M.Frankle

Title: Testing T-Odd,P-Even Interactions with γ Rays from Neutron p-Wave Resonances

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E \approx 5-9$ eV; measured γ yield, $\sigma(\theta)$ vs E ,forward,backward asymmetry. ^{114}Cd deduced p-wave resonance time reversal odd-T,parity even interaction limit.

Keynumber: 1992FRZX

Reference: Bull.Am.Phys.Soc. 37, No.2, 937, F10 8 (1992)

Authors: C.M.Frankle, C.D.Bowman, J.D.Bowman, S.J.Seestrom, E.I.Sharapov, Yu.P.Popov, N.R.Roberson

Title: Neutron Resonance Spectroscopy in ^{113}Cd : The p-wave levels

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E=20-500$ eV; measured not given. ^{114}Cd deduced resonances,parameters,p-wave strength function,level density.

Keynumber: [1992FR07](#)

Reference: Phys.Rev. C45, 2143 (1992)

Authors: C.M.Frankle, C.D.Bowman, J.D.Bowman, S.J.Seestrom, E.I.Sharapov, Yu.P.Popov, N.R.Roberson

Title: Neutron Resonance Spectroscopy on ^{113}Cd : The p-wave levels

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,n)$, $^{113}\text{Cd},\text{Cd}(n,\gamma)$, $E=0-500$ eV; measured E_n ,capture γ yield, $\sigma(E)$. ^{114}Cd deduced levels,resonance parameters,p-wave strength function,level density. Enriched target.

Keynumber: 1992CA32

Reference: Phys.Lett. 297B, 19 (1992)

Authors: R.F.Casten, J.Jolie, H.G.Borner, D.S.Brenner, N.V.Zamfir, W.-T.Chou, A.Aprahamian

Title: The Enigma of ^{114}Cd . A Classical Case of Ambiguities in Quantum Mechanical State Mixing

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, γ -transition profile. ^{114}Cd levels deduced $T_{1/2}$, $B(\lambda)$,configuration. GRID technique.

Keynumber: 1992BA58

Reference: Yad.Fiz. 55, 2709 (1992); Sov.J.Nucl.Phys. 55, 1513 (1992)

Authors: A.L.Barabanov

Title: Angular Anisotropy of γ Rays in the (n,γ) Reaction Near the p Resonance

Keyword abstract: NUCLEAR REACTIONS ^{117}Sn , $^{113}\text{Cd}(\text{polarized } n,\gamma)$, $E \approx \text{resonance}$; calculated γ -asymmetry vs E ; deduced possible reasons for experimental data discrepancies.

Keynumber: 1992BA44

Reference: Yad.Fiz. 55, 1876 (1992); Sov.J.Nucl.Phys. 55, 1039 (1992)

Authors: A.L.Barabanov

Title: Semiclassical Analysis of Angular Correlations in an (n, γ) Reaction Near a p-Wave Resonance

Keyword abstract: NUCLEAR REACTIONS ^{117}Sn , ^{113}Cd (polarized n, γ),E not given; analyzed data. Semi-classical theory,p-wave resonances.

Keynumber: 1991SK03

Reference: Fiz.Elem.Chastits At.Yadra 22, 1400 (1991); Sov.J.Part.Nucl. 22, 681 (1991)

Authors: V.R.Skoi, E.I.Sharapov

Title: P-Odd Angular Correlations in Resonance (n, γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{117}Sn (polarized n, γ),E=reactor; measured capture E_γ , I_γ ,asymmetry; deduced two spin channels resonance model adequacy. ^{118}Sn , ^{114}Cd deduced p-resonance parameters. Other results reviewed.

Keynumber: 1991NEZX

Reference: KFK 4888 (1991)

Authors: Zs.Nemeth

Title: Low-Spin Levels of 111 , ^{113}Cd

Keyword abstract: NUCLEAR REACTIONS 111 , ^{113}Cd (n,n' γ), (n, γ),E not given; analyzed data. 111 , ^{113}Cd deduced levels,J, π ,B(E2). Other isotopes data analyzed. Model comparisons.

Keynumber: 1990VE17

Reference: Yad.Fiz. 52, 620 (1990); Sov.J.Nucl.Phys. 52, 398 (1990)

Authors: V.A.Vesna, I.A.Lomachenkov, I.S.Okunev, E.V.Shulgina, V.I.Furman

Title: Measurements and Analysis of Parity Nonconservation Effects in the Integrated γ Spectra in the Reactions ^{113}Cd (n, γ) ^{114}Cd and ^{56}Fe (n, γ) ^{57}Fe

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{56}Fe (polarized n, γ),E=thermal; measured P-odd γ -asymmetry. ^{114}Cd , ^{57}Fe deduced weak interaction matrix elements.

Keynumber: 1990ALZP

Reference: JINR-P3-90-270 (1990)

Authors: V.P.Alfimenkov, S.B.Borzakov, Yu.D.Mareev, L.B.Pikelner, V.R.Skoi, A.S.Khrykin, E.I.Sharapov

Title: P-Even Effects in the ^{113}Cd (n, γ) Reactions Near the Resonance 7 eV

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd (n, γ), (polarized n, γ),E \approx 7 eV; measured $\gamma(\theta)$. ^{114}Cd transitions deduced P-even asymmetry coefficients. Tof.

Keynumber: 1990AL39

Reference: Yad.Fiz. 52, 927 (1990); Sov.J.Nucl.Phys. 52, 589 (1990)

Authors: V.P.Alfimenkov, S.B.Borzakov, Yu.D.Mareev, L.B.Pikelner, V.R.Skoi, A.S.Khrykin, E.I.Sharapov

Title: P-Even Effects in the Reaction ^{113}Cd (n, γ) in the Region of the Resonance at $E(p) = 7$ eV

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd (polarized n, γ),E \approx resonance; measured E_γ , I_γ , γ -asymmetry. ^{114}Cd deduced p-wave resonance characteristics.

Keynumber: 1987ALZH

Reference: Program and Theses, Proc.37th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Yurmala, p.285 (1987)

Authors: V.P.Alfimenkov, S.B.Borzakov, Yu.D.Mareev, L.B.Pikelner, A.S.Khrykin, E.I.Sharapov

Title: Gamma-Spectroscopy in Nonconservation Parity Resonances of Cd-113, Cd-117, Sn-117

Keyword abstract: NUCLEAR REACTIONS $^{111}, ^{113}, ^{117}\text{Cd}(n,\gamma), E=4-11$ eV; measured $E\gamma, I\gamma$. $^{112}, ^{114}, ^{118}\text{Cd}$ deduced resonances, $J, \pi, \Gamma\gamma, \Gamma$. Tof.

Keynumber: 1987ALZE

Reference: JINR-P3-87-117 (1987)

Authors: V.P.Alfimenkov, S.B.Borzakov, Yu.D.Mareev, L.B.Pikelner, A.S.Khrykin, E.I.Sharapov

Title: Some Characteristics of p-Wave Resonances of $^{111}, ^{113}\text{Cd}$

Keyword abstract: NUCLEAR REACTIONS $^{111}, ^{113}\text{Cd}(n,\gamma), E=2-10$ eV; measured $\sigma(E\gamma, \theta)$. $^{112}, ^{114}\text{Cd}$ resonances deduced $J, \Gamma\gamma$. Tof. Other data input.

Keynumber: 1985VOZV

Reference: Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics, Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.305 (1985)

Authors: T.von Egidy, P.Hungerford, H.H.Schmidt, H.J.Scheerer, A.N.Behkami, G.Hlawatsch, B.Krusche, K.P.Lieb, H.G.Borner, S.A.Kerr, K.Schreckenbach

Title: Structural and Statistical Aspects of Extensive Level Schemes from (n,γ) and Transfer Reactions

Keyword abstract: NUCLEAR REACTIONS $^{19}\text{F}, ^{23}\text{Na}, ^{27}\text{Al}, ^{35}\text{Cl}, ^{39}, ^{40}, ^{41}\text{K}, ^{113}\text{Cd}, ^{133}\text{Cs}, ^{154}\text{Sm}, ^{153}\text{Eu}, ^{154}\text{Gd}, ^{160}, ^{162}\text{Dy}(n,\gamma), (n,e), E$ not given; measured not given. $^{20}\text{F}, ^{24}\text{Na}, ^{28}\text{Al}, ^{36}\text{Cl}, ^{40}, ^{41}, ^{42}\text{K}, ^{114}\text{Cd}, ^{134}\text{Cs}, ^{155}\text{Sm}, ^{154}\text{Eu}, ^{155}\text{Gd}, ^{161}, ^{163}\text{Dy}$ deduced levels, γ -transition multipolarity, strength distribution.

Keynumber: 1985FL03

Reference: Nucl.Phys. A435, 352 (1985)

Authors: V.V.Flambaum, O.P.Sushkov

Title: Angular and Polarization Correlations in the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{35}\text{Cl}, ^{81}\text{Br}, ^{113}\text{Cd}, ^{117}\text{Sn}, ^{139}\text{La}(\text{polarized } n,\gamma), E \approx$ resonance; calculated odd-, even-parity correlation parameters.

Keynumber: 1984MH01

Reference: Nucl.Phys. A412, 113 (1984)

Authors: A.Mheemed, K.Schreckenbach, G.Barreau, H.R.Faust, H.G.Borner, R.Brissot, P.Hungerford, H.H.Schmidt, H.J.Scheerer, T.Von Egidy, K.Heyde, J.L.Wood, P.Van Isacker, M.Waroquier, G.Wenes, M.L.Stelts

Title: The Level Structure of ^{114}Cd from (n,γ) and (d,p) Studies

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma), E=\text{thermal}, 2$ keV, 24 keV; $^{113}\text{Cd}(n,e^-), E=\text{thermal}$; $^{113}\text{Cd}(d,p), E=10$ MeV; measured $E\gamma, I\gamma, I(\text{ce}), E(p), \sigma(E(p))$. ^{114}Cd deduced levels, $J, \pi, \text{ICC}, \gamma$ -branching, $E0$ branches. Curved crystal spectrometers, Ge(Li) pair spectrometers, magnetic conversion electron spectrometer, magnetic spectrograph, enriched targets. Comparison with proton $2p-2h$ coupling, interacting boson model configuration mixing calculations.

Keynumber: 1984BU41

Reference: Yad.Fiz. 40, 188 (1984); Sov.J.Nucl.Phys. 40, 119 (1984)

Authors: V.E.Bunakov, V.P.Gudkov, S.G.Kadmensky, I.A.Lomachenkov, V.I.Furman

Title: Parity Nonconservation Effects in Radiative-Capture Cross Sections

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma), E=\text{thermal}$; calculated capture $E\gamma, I\gamma, \gamma$ CP. $^{81}\text{Br}, ^{117}\text{Sn}, ^{139}\text{La}(n,\gamma), E=\text{thermal}$; calculated γ CP, asymmetry; deduced weak interaction matrix

elements information.

Keynumber: 1983BUZU

Reference: JINR-P4-83-379 (1983)

Authors: V.E.Bunakov, V.P.Gudkov, S.G.Kadmensky, I.A.Lomachenkov, V.I.Furman

Title: Parity Nonconservation Effects in Radiative Caspture Cross-Section

Keyword abstract: NUCLEAR REACTIONS ^{81}Br , ^{113}Cd , ^{117}Sn , $^{139}\text{La}(n,\gamma)$, $E=\text{thermal}$; analyzed radiative capture σ data; deduced parity nonconserving effect role in weak interaction matrix element determination.

Keynumber: 1982SC09

Reference: Phys.Lett. 110B, 364 (1982)

Authors: K.Schreckenbach, A.Mheemeed, G.Barreau, T.von Egidy, H.R.Faust, H.G.Borner, R.Brissot, M.L.Stelts, K.Heyde, P.van Isacker, M.Waroquier, G.Wenes

Title: The Importance of Intruder States in ^{114}Cd

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, (n,e^-) , $E=\text{thermal}$; $^{113}\text{Cd}(n,\gamma)$, $E=2,24$ keV; measured $E\gamma$, $I\gamma$, $I(\text{ce})$. ^{114}Cd deduced levels, γ -branching ratio, $J, \pi, T_{1/2}$, $B(E0)$, $B(E2)$. Two-particle, two-hole core coupling calculations.

Keynumber: 1982HU08

Reference: J.Phys.(London) G8, 1107 (1982)

Authors: P.Hungerford, W.D.Hamilton

Title: Gamma-Gamma Correlation Measurements in ^{114}Cd

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma(\theta)$, oriented nuclei. ^{114}Cd deduced levels, γ -branching, J, π, δ , $B(E0)/B(E2)$.

Keynumber: 1980SCZR

Coden: PC K Schreckenbach, June 1980

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E=2,24$ keV; measured $E\gamma$. ^{114}Cd deduced levels, J, π .

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) , $E=\text{reactor}$; measured $E\gamma$, $I(\text{ce})$. ^{28}Al , ^{92}Zr , ^{114}Cd , ^{165}Dy , ^{168}Er , ^{200}Hg , ^{239}U deduced $B(n)$. Bent crystal Gams, pair, β -spectrometers.

Keynumber: 1978POZU

Coden: REPT JINR-P3-11243, Y Popov

Keyword abstract: NUCLEAR REACTIONS 111 , $^{113}\text{Cd}(n,\gamma)$, $E=400-600$ eV; $^{149}\text{Sm}(n,\gamma)$, $E=400-900$ eV; measured $E\gamma$, $I\gamma$. 112 , ^{114}Cd , ^{150}Sm levels deduced γ -branching. Statistical theory calculations.

Keynumber: 1977BRZM

Coden: JOUR VDPEA No6/1977,808,B2-9,Braumandl

Keyword abstract: NUCLEAR REACTIONS ^{199}Hg , $^{113}\text{Cd}(n,\gamma)$; measured $\sigma(E,E\gamma)$,ce-spectra; deduced Q. ^{114}Cd , ^{200}Hg deduced levels,neutron binding energy.

Keynumber: 1976WAZA

Coden: CONF Lowell(Interactions of Neutrons),CONF-760715-P2,Vol2 P1279

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$; measured pair spectra. ^{114}Cd deduced transitions.

Keynumber: 1976SMZO

Coden: REPT ANL-76-96,P127,Smither

Keyword abstract: NUCLEAR REACTIONS 111 , $^{113}\text{Cd}(n,\gamma)$; measured diffraction spectra, $I\gamma$. 112 , ^{114}Cd deduced structure.

Keynumber: 1975SMZP

Reference: ANL-75-75, p.145 (1975)

Authors: R.K.Smith

Title: Nuclear Structure of ^{114}Cd

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$; measured γ -spectra. ^{114}Cd deduced levels,resonances,K.

Keynumber: 1974SMZY

Coden: JOUR BAPSA 19 525 GG12

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , $^{149}\text{Sm}(n,\gamma)$; measured $\sigma(E\gamma)$. ^{114}Cd , ^{150}Sm deduced levels.

Keynumber: 1974PEZE

Coden: REPT CONF-740218,Paper 38

Keyword abstract: NUCLEAR REACTIONS 111 , $^{113}\text{Cd}(n,\gamma)$, $E=10-100$ keV; measured $\sigma(E,E\gamma)$.

Keynumber: 1974DA07

Reference: Yad.Fiz. 19, 3 (1974); Sov.J.Nucl.Phys. 19, 1 (1974)

Authors: M.M.Danilov, O.N.Ermakov, V.V.Vasilev, I.L.Karpikhin, V.K.Rissukhin

Title: Spins of Composite States in ^{130}Xe and ^{124}Te

Keyword abstract: NUCLEAR REACTIONS ^{32}S , ^{115}In , $^{113}\text{Cd}(\text{polarized } n,\gamma)$, $E=2-10$ MeV; ^{123}Te , $^{129}\text{Xe}(\text{polarized } n,\gamma)$, $E=\text{thermal}$; measured CP(γ). ^{116}In , ^{114}Cd levels deduced J. ^{124}Te , ^{130}Xe levels deduced J, π .

Keynumber: 1973SMZM

Coden: REPT ANL-8035 P9

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$; measured $E\gamma$, $I\gamma$.

Keynumber: 1973SMZK

Coden: REPT ANL-8035 P13

Keyword abstract: NUCLEAR REACTIONS 111 , $^{113}\text{Cd}(n,\gamma)$; measured $\sigma(E\gamma)$. 112 , ^{114}Cd deduced resonances.

Keynumber: 1973LAYG

Reference: RCN-191 (1973)

Authors: G.Lautenbach

Title: Calculated Neutron Absorption Cross Sections of 75 Fission Products

Keyword abstract: NUCLEAR REACTIONS ^{81}Br , 83 , 84 , 85 , ^{86}Kr , 85 , ^{87}Rb , 88 , ^{90}Sr , ^{89}Y , 91 , 92 , 93 , 94 , 95 , ^{96}Zr , 95 , 97 , 98 , ^{100}Mo , ^{99}Tc , 101 , 102 , 104 , ^{106}Ru , ^{103}Rh , 105 , 106 , 107 , 108 , ^{110}Pd , ^{109}Ag , 111 , 112 , 113 , ^{114}Cd , ^{115}In , 126 , 128 , ^{130}Te , 127 , ^{129}I , 131 , 132 , 134 , ^{136}Xe , 133 , 135 , ^{137}Cs , ^{138}Ba , ^{139}La , 140 , ^{142}Ce , ^{141}Pr , 143 , 144 , 145 , 146 , 148 , ^{150}Nd , ^{147}Pm , 147 , 148 , 149 , 150 , 151 , 152 , ^{154}Sm , 153 , 154 , ^{155}Eu , 155 , 156 , 157 , ^{158}Gd , $^{159}\text{Tb}(n,\gamma)$; calculated $\sigma(E)$.

Keynumber: 1973KRYX

Coden: REPT RCN-203 P20

Keyword abstract: NUCLEAR REACTIONS ^{35}Cl , $^{113}\text{Cd}(\text{polarized } n,\gamma)$; measured $I\gamma(\theta)$.

Keynumber: 1973KAZL

Coden: REPT JINR-P3-6948,E N Karzhavina

Keyword abstract: NUCLEAR REACTIONS 111 , ^{113}Cd , ^{157}Gd , 161 , $^{163}\text{Dy}(n,\gamma)$, $E > \text{thermal}$; deduced 112 , ^{114}Cd , ^{158}Gd , 162 , ^{164}Dy resonances deduced J.

Keynumber: 1973FOYT

Coden: REPT KDK-2 P56

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$; measured $\gamma\gamma(t)$. ^{114}Cd level deduced $T_{1/2}$.

Keynumber: 1973ABZY

Coden: CONF Tbilisi,p378

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(\text{polarized } n,\gamma)$, $E = \text{thermal}$; measured γ -anisotropy. ^{114}Cd 9.04 MeV transition deduced asymmetry.

Keynumber: 1973AB11

Reference: Zh.Eksp.Teor.Fiz. 65, 1738 (1973); Sov.Phys.JETP 38, 870 (1974)

Authors: Y.G.Abov, O.N.Ermakov, P.A.Krupchitskii

Title: Violation of P Parity in the Reaction $^{113}\text{Cd}(n,\gamma)^{114}\text{Cd}$

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$; measured $\gamma(\theta)$. Review.

Keynumber: 1972AL23

Reference: Phys.Rev.Lett. 29, 518 (1972)

Authors: J.L.Alberi, R.Wilson, I.G.Schroder

Title: Parity Violation in Neutron-Capture γ Rays

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, $E = \text{thermal}$; measured γ -CP. ^{114}Cd transition deduced parity nonconservation.

Keynumber: 1972AB15

Reference: Yad.Fiz. 16, 1218 (1972); Sov.J.Nucl.Phys. 16, 670 (1973)

Authors: Y.G.Abov, M.M.Danilov, O.N.Ermakov, I.L.Karpikhin, V.K.Rissukhin, A.M.Skorniyakov

Title: P-Odd Interaction in the $\text{Cd}^{113}(n,\gamma)\text{Cd}^{114}$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(\text{polarized } n,\gamma)$, $E = \text{thermal}$; measured $\gamma(\theta)$.

Keynumber: 1971SCYJ

Coden: REPT HEDL-TME-71-143,R Schenter,11/20/72

Keyword abstract: NUCLEAR REACTIONS ^{83}Kr , ^{95}Zr , ^{95}Nb , $^{95, 97, 98, 99, 100}\text{Mo}$, $^{101, 102, 103, 104, 105, 106}\text{Ru}$, ^{105}Rh , $^{105, 106, 107, 109}\text{Pd}$, ^{113}Cd , $^{131, 135}\text{I}$, $^{131, 133}\text{Xe}$, $^{135, 137}\text{Cs}$, $^{139}\text{La}(n, X)$, (n, γ) , (n, n) , (n, n') , $E < 10 \text{ MeV}$; analyzed $\sigma(E)$; evaluated capture σ .

Keynumber: 1971PA35

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 35, 1593 (1971); Bull.Acad.Sci.USSR, Phys.Ser. 35, 1453 (1972)

Authors: Y.N.Panin, V.I.Pelekhov, V.A.Ivanov

Title: The Multipole Order Predominant in Radiative Transitions of Energy $> 2m_0c^2$ in ^{114}Cd , ^{150}Sm , and ^{158}Gd Following Thermal-Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , ^{149}Sm , $^{157}\text{Gd}(n, \gamma)$, $E = \text{thermal}$; measured $I(\beta+)$, $I(\beta-)$. ^{114}Cd , ^{150}Sm , ^{158}Gd transitions deduced pair ICC, dominant multipolarity.

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

Keynumber: 1969WA14

Reference: Phys.Letters 29B, 564 (1969)

Authors: E.Warming

Title: Parity Non-Conservation in the Capture of Polarized Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(\text{polarized } n, \gamma)$, $E = \text{thermal}$; measured $E\gamma$, $I\gamma(\theta)$. Ge (Li) detector.

Keynumber: 1969SA29

Reference: Current Sci.(India) 38, 237 (1969)

Authors: D.L.Sastry, K.Parthasaradhi, S.Jnanananda

Title: Low Energy Thermal Neutron Capture Gamma-Rays from Cd and Sm

Keyword abstract: NUCLEAR REACTIONS ^{113}Cd , $^{149}\text{Sm}(n, \gamma)$, $E = \text{thermal}$; measured $E\gamma$, $I\gamma$. ^{114}Cd , ^{150}Sm deduced intense population of low-lying states.

Keynumber: 1969EI05

Reference: Z.Physik 227, 352 (1969)

Authors: J.Eichler, P.Heine

Title: An Experimental Test of Parity Violation in Nuclear Forces Studied in $^{113}\text{Cd}(n, \gamma)$

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(\text{polarized } n, \gamma)$, $E = \text{thermal}$; measured $\gamma(\theta)$; deduced no parity violation.

Keynumber: 1969AB03

Reference: Nucl.Phys. A124, 34 (1969)

Authors: K.Abrahams, W.Ratynski

Title: Circular Polarization of γ -Radiation After Capture of Polarized Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{39}K , ^{40}Ca , ^{48}Ti , ^{59}Co , ^{113}Cd , $^{207}\text{Pb}(n,\gamma)$, E=thermal; measured $P\gamma$, $E\gamma$. ^{40}K , ^{41}Ca , ^{49}Ti , ^{60}Co , ^{114}Cd , ^{208}Pb , deduced levels, J, delta. Natural targets, Ge(Li) detector.

Keynumber: 1968SMZZ

Reference: Bull.Am.Phys.Soc. 13, No.4, 721, KG5 (1968)

Authors: R.K.Smith, D.J.Buss, E.Bieber

Title: High-Energy K-Conversion Coefficients

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$. ^{114}Cd levels deduced ICC, π , γ -multipolarity.

Keynumber: 1968AB06

Reference: Phys.Lett. 27B, 16 (1968)

Authors: Y.G.Abov, P.A.Krupchitsky, M.I.Bulgakov, O.N.Yermakov, I.L.Karpikhin

Title: Repeated Experiment to Observe the Weak Nucleon-Nucleon Interaction

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(\text{polarized } n,\gamma)$, E not given; measured $\sigma(E\gamma, \theta(\gamma))$, asymmetry.

Keynumber: 1967SM05

Reference: Phys.Lett. 25B, 128 (1967)

Authors: R.K.Smith

Title: Energy Dependence of High-Energy K Conversion Coefficients

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$. ^{114}Cd levels deduced γ -multipolarity, ICC, π .

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: 1967EG01

Reference: Z.Physik 201, 378 (1967)

Authors: T.v.Egidy, W.Kaiser

Title: Hochenergetische Konversionselektronen von Cd 114 nach Neutroneneinfang

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, I(ce), ICC. ^{114}Cd deduced levels, J, π , γ -multipolarity.

Keynumber: 1966BA10

Reference: Nucl.Phys. 80, 154 (1966)

Authors: A.Backlin, N.E.Holmberg, G.Backstrom

Title: Internal Conversion Study of $^{113}\text{Cd}(n,\gamma)^{114}\text{Cd}$

Keyword abstract: NUCLEAR REACTIONS $^{113}\text{Cd}(n,\gamma)$, E = th; measured E_γ , I(ce). ^{114}Cd deduced levels, J, π . Enriched target.
