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52 reference(s) found :

Keynumber: 2001HAZT

Reference: INDC(CPR)-053/L, p.23 (2001)

Authors: Y.Han

Title: Calculation and Recommendation of $n + {}^{174,176-180}\text{NatHf}$ Reactions

Keyword abstract: NUCLEAR REACTIONS $\text{Hf}, {}^{174}, {}^{176}, {}^{177}, {}^{178}, {}^{179}, {}^{180}\text{Hf}(n,n), (n,n'), (n,\gamma), (n,2n), (n,p), E < 20 \text{ MeV}$; calculated σ . Comparisons with data.

Keynumber: 2000WAZW

Reference: INDC(CPR)-052/L, p.103 (2000)

Authors: T.Wang, T.Liu, J.Liu

Title: The Experimental Data Evaluation for Natural Hf and Its Isotopes

Keyword abstract: NUCLEAR REACTIONS ${}^{176}, {}^{177}, {}^{178}, {}^{179}, {}^{180}\text{Hf}(n,\gamma), E < 3 \text{ MeV}$; $\text{Hf}(n,\gamma), (n,X), E < 20 \text{ MeV}$; compiled, evaluated σ .

Keynumber: 2000APZZ

Reference: Proc.10th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Santa Fe, New Mexico, 30 August-3 September 1999, S.Wender, Ed., p.51 (2000); AIP Conf.Proc. 529 (2000)

Authors: A.Aprahamian, R.C.de Haan, H.Borner, H.Lehmann, M.Jentschel

Title: The Nature of $K^\pi = 0^+$ Excitations in Deformed Nuclei

Keyword abstract: NUCLEAR REACTIONS ${}^{177}\text{Hf}, {}^{155}\text{Gd}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma$. ${}^{178}\text{Hf}, {}^{156}\text{Gd}$ deduced levels $T_{1/2}, B(E2), \text{collective bands}$. Gamma-ray-induced Doppler broadening technique.

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 ${}^{113}\text{Cd}, {}^{123}\text{Te}, {}^{145}\text{Nd}, {}^{149}\text{Sm}, {}^{155}, {}^{157}\text{Gd}, {}^{162}, {}^{163}, {}^{164}\text{Dy}, {}^{167}\text{Er}, {}^{173}, {}^{174}\text{Yb}, {}^{177}, {}^{178}, {}^{180}\text{Hf}, {}^{187}, {}^{189}\text{Os}, {}^{195}\text{Pt}, {}^{199}\text{Hg}, {}^{127}\text{I}, {}^{159}\text{Tb}, {}^{165}\text{Ho}, {}^{169}\text{Tm}, {}^{175}\text{Lu}, {}^{181}\text{Ta}, {}^{191}\text{Ir}, {}^{197}\text{Au}, {}^{124}\text{Te}, {}^{182}, {}^{185}\text{W}(n,\gamma), E=\text{thermal}$; analyzed $I\gamma$; deduced non-exponential level densities.

Keynumber: 1999HO33

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

Authors: N.E.Holden

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

Keyword abstract: NUCLEAR REACTIONS ${}^{103}\text{Rh}, {}^{113}\text{Cd}, {}^{115}\text{In}, {}^{135}\text{Xe}, {}^{148}\text{Pm}, {}^{149}, {}^{151}\text{Sm}, {}^{151}, {}^{152}, {}^{153}, {}^{154}, {}^{155}\text{Eu}, {}^{155}, {}^{157}\text{Gd}, {}^{164}\text{Dy}, {}^{175}, {}^{176}\text{Lu}, {}^{177}\text{Hf}, {}^{182}\text{Ta}, {}^{185}, {}^{187}\text{Re}, {}^{197}\text{Au}, {}^{231}, {}^{233}\text{Pa}, {}^{235}, {}^{238}\text{U}$ $(n,\gamma), E=\text{low}$; 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.Vasileva, 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: 1999AP02

Reference: J.Phys.(London) G25, 685 (1999)

Authors: A.Aprahamian, R.C.de Haan, S.R.Lesher, J.Doring, A.M.Bruce, H.G.Borner, M.Jentschel, H.Lehmann

Title: Collective $K^\pi = 0^+$ Vibrational Excitations in ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS ^{177}Hf (n, γ),E=thermal; measured E_γ , I_γ . ^{178}Hf deduced levels $T_{1/2}$, $B(E2)$,collective effects. Gamma-ray induced Doppler broadening technique.

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 , ^{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, $\gamma\gamma$ -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: 1996GEZZ

Reference: JINR-E3-96-9 (1996)

Authors: G.P.Georgiev, N.G.Panaiotova, Yu.V.Grigorev

Title: Neutron Resonance Parameters of ^{177}Hf

Keyword abstract: NUCLEAR REACTIONS ^{177}Hf (n, γ),E=20-700 eV; measured capture γ -ray multiplicity. ^{178}Hf deduced resonances,J,s-wave neutron strength functions. Tof,16-section NaI(Tl) detector.

Keynumber: [1993RE06](#)

Reference: Phys.Rev. C47, 2621 (1993)

Authors: J.Rekstad, T.S.Tveter, M.Guttormsen, L.Bergholt

Title: K Dependence in the Gamma Decay of Neutron Resonances in ^{168}Er and ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS ^{167}Er , ^{177}Hf (n, γ),E not given; analyzed γ -decay data following neutron capture. ^{178}Hf , ^{168}Er deduced levels, I_γ , J , π , K . Transition rate K-selection rule dependence discussed.

Keynumber: 1988BOZO

Reference: Program and Theses, Proc.38th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Baku, p.121 (1988)

Authors: S.T.Boneva, E.V.Vasileva, E.P.Grigorev, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov

Title: Possibility of Identification of Low-Energy Primary Gamma-Transitions

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma,\gamma\gamma$ -coin. ^{178}Hf deduced levels. Amplitude summation method.

Keynumber: 1988BOZL

Reference: JINR-P6-88-117 (1988)

Authors: S.T.Boneva, E.V.Vasileva, E.P.Grigorev, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov

Title: The Possibility of Revealing Soft Primary Transitions in $(n,2\gamma)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal; analyzed $\gamma\gamma$ -coin, $E\gamma,I\gamma,\gamma\gamma$ -multipolarity. ^{178}Hf deduced levels, J,π . Amplitude summation method.

Keynumber: 1987BOZL

Reference: Program and Theses, Proc.37th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Yurmala, p.136 (1987)

Authors: A.A.Bogdzal, S.T.Boneva, E.V.Vasileva, O.I.Elizarov, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov, Yu.S.Yazvitsky

Title: A Study of Cascade Gamma-Decay of ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma,I\gamma,\gamma\gamma$ -coin. ^{178}Hf deduced levels. Sum coincidence technique.

Keynumber: 1987BOZI

Reference: JINR-P6-87-73 (1987)

Authors: A.A.Bogdzal, S.T.Boneva, E.V.Vasileva, O.I.Elizarov, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov, Yu.S.Yazvitsky

Title: Investigation of ^{178}Hf Cascade Gamma-Decay

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma,I\gamma,\gamma\gamma$ -coin. ^{178}Hf deduced levels, J,π . Amplitude summation method, $\text{Ge}(\text{Li})$ detectors.

Keynumber: 1987BOZF

Reference: JINR-E3-87-536 (1987)

Authors: S.T.Boneva, V.A.Khitrov, Yu.P.Popov, A.M.Sukhovi, E.V.Vasileva, Yu.S.Yazvitsky

Title: On the Influence of the Final States Structure on the Intensity of Two-Quanta Cascades

Keyword abstract: NUCLEAR REACTIONS ^{174}Yb , ^{167}Er , 177 , $^{178}\text{Hf}(n,\gamma)$,E=thermal; measured $\gamma\gamma$ -coin, $I\gamma$. ^{175}Yb , ^{168}Er , 178 , ^{179}Hf deduced two-quanta cascade intensities. Amplitude summation method.

Keynumber: 1987BO53

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 51, 1923 (1987); Bull.Acad.Sci.USSR, Phys.Ser. 51, No.11, 43 (1987)

Authors: S.T.Boneva, E.V.Vasileva, A.M.Sukhovi

Title: Reliability of γ -Transition Scheme Determination in the Coincident Pulse Amplitude Summation Method

Keyword abstract: NUCLEAR REACTIONS ^{143}Nd , ^{163}Dy , 177 , $^{178}\text{Hf}(n,\gamma)$,E not given; measured γ sum spectra. 178 , ^{179}Hf deduced γ -transitions. Coincident pulse amplitude summation method.

Keynumber: 1987BO52

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 51, 1882 (1987); Bull.Acad.Sci.USSR, Phys.Ser. 51, No.11, 8 (1987)

Authors: A.A.Bogdzal, S.T.Boneva, E.V.Vasileva, O.I.Elizarov, Yu.P.Popov, A.M.Sukhovi, V.A.Khitrov, Yu.S.Yazvitsky

Title: Investigation of Cascade γ -Transitions in ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{178}Hf deduced levels.

Keynumber: 1986HA22

Reference: Nucl.Phys. A455, 231 (1986)

Authors: A.M.I.Haque, R.F.Casten, I.Forster, A.Gelberg, R.Rascher, R.Richter, P.von Brentano, G.Barreau, H.G.Borner, S.A.Kerr, K.Schreckenbach, D.D.Warner

Title: A Study of the Low-Lying States in ^{178}Hf through the (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal,resonance; measured $E\gamma$, $I\gamma$,I(ce). ^{178}Hf deduced levels,J, π , γ -branching, γ -multipolarity, δ ,B(λ),band structure,neutron binding energy.

Keynumber: 1984BE34

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

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

Title: Neutron Capture Cross Sections and Solar Abundances of 160 , ^{161}Dy , 170 , ^{171}Yb , 175 , ^{176}Lu , and 176 , ^{177}Hf for the s-Process Analysis of the Radionuclide ^{176}Lu

Keyword abstract: NUCLEAR REACTIONS 160 , ^{161}Dy , 170 , ^{171}Yb , 175 , ^{176}Lu , 176 , $^{177}\text{Hf}(n,\gamma)$,E \approx 3-500 keV; measured $\sigma(E)$, γ yields; deduced Maxwellian $\langle\sigma\rangle$ solar abundances,s-process temperature constraints. 176 , ^{177}Lu , 177 , ^{178}Hf , 161 , ^{162}Dy , 171 , ^{172}Yb deduced resonances,parameters, ($g\Gamma n\Gamma\gamma/\Gamma$),s-wave 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}Hf , $^{181}\text{Ta}(n,\gamma)$,E=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}Hf deduced level density parameters. Cascade model.

Keynumber: 1977ST10

Reference: Nucl.Phys. A281, 240 (1977)

Authors: M.Stefanon, F.Corvi

Title: Resonance Neutron Capture Gamma Rays in ^{177}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=1-165 eV; measured $E\gamma$, $I\gamma$; deduced Q. ^{178}Hf deduced levels,J, π ,E1,M1 strength. Enriched target,Ge(Li) detector.

Keynumber: 1976SMZM

Reference: ANL-76-96, Ann.Rept., p.131 (1976)

Authors: R.K.Smith, D.L.Bushnell

Title: Nuclear Structure of ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$; measured γ -spectra. ^{178}Hf deduced levels.

Keynumber: 1976RO09

Reference: Nucl.Phys. A264, 93 (1976)

Authors: G.Rohr, H.Weigmann

Title: Short Range Energy Dependence of the Neutron Widths of ^{177}Hf Resonances

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$, self-indication, $E=10-300$ eV; measured $\sigma(E, E\gamma)$. ^{178}Hf resonances deduced Γ_n, S . Statistical test for intermediate structure.

Keynumber: 1975SMZM

Reference: ANL-75-75, Ann.Rept., p.148 (1975)

Authors: R.K.Smithers, D.L.Bushnell, D.J.Buss

Title: Nuclear Structure of ^{178}Hf and ^{180}Hf

Keyword abstract: NUCLEAR REACTIONS $^{179}, ^{177}\text{Hf}(n,\gamma)$, $E=\text{thermal}$; measured γ -spectra. $^{178}, ^{180}\text{Hf}$ deduced levels, K, J, π .

Keynumber: 1975LI10

Reference: Phys.Rev. C11, 2022 (1975)

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

Title: Neutron Resonance Spectroscopy: ^{177}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,n)$, (n,γ) , $E=3-700$ eV; measured total $\sigma(E)$. ^{178}Hf deduced resonances, level-width.

Keynumber: 1974HEZI

Coden: REPT USNDC-11 P10

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$; measured $\sigma(E\gamma), \gamma(t)$. ^{178m}Hf deduced $T_{1/2}$.

Keynumber: 1973SMZL

Reference: Priv.Comm. (December 1973)

Authors: R.K.Smithers

Title:

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$, E not given; measured $E\gamma, I\gamma$. ^{178}Hf deduced levels, J, π, γ -multipolarities.

Keynumber: 1973SMZH

Coden: REPT ANL-8035 P18

Keyword abstract: NUCLEAR REACTIONS $^{177}, ^{179}\text{Hf}(n,\gamma)$; measured $\sigma(E\gamma)$. $^{178}, ^{180}\text{Hf}$ deduced levels.

Keynumber: 1973ROYS

Coden: CONF Munich(Nucl Phys), Vol1 P524

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$; measured $E\gamma$. ^{178}Hf deduced transitions.

Keynumber: 1973PRZI

Reference: Spectra of Electromagnetic Transitions and Level Schemes Following Thermal Neutron Capture by Nuclides with A 143-193, P.Prokofev, J.Berzins, G.Rezvaya, Eds., Publishing House 'Zinatne', Riga (1973)

Authors: P.Prokofev, M.Balodis, M.Beitins, Y.Berzin, V.Bondarenko, N.Kramer, A.Krumina, G.Rezvaya, L.Simonova

Title:

Keyword abstract: NUCLEAR REACTIONS $^{143}, ^{145}\text{Nd}$, ^{149}Sm , ^{167}Er , ^{174}Yb , $^{175}, ^{176}\text{Lu}$, $^{177}, ^{178}\text{Hf}$, ^{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 , $^{162}, ^{164}\text{Dy}$, ^{165}Ho , ^{168}Yb , $^{169}\text{Tm}(n,\gamma)$, $E=\text{thermal}$; measured I

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

Keynumber: 1973KAYI

Coden: REPT INDC(HUN)-11/L P33

Keyword abstract: NUCLEAR REACTIONS $^{155}\text{Gd}, ^{163}\text{Dy}, ^{177}\text{Hf}(n,\gamma)$; measured $E\gamma, I\gamma$. $^{156}\text{Gd}, ^{164}\text{Dy}, ^{178}\text{Hf}$ resonances deduced level-width.

Keynumber: 1973HEYJ

Coden: REPT ANCR-1129 P43

Keyword abstract: RADIOACTIVITY $^{178\text{m}}\text{Hf}$; measured $T_{1/2}, E\gamma$.

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$; measured σ .

Keynumber: 1973HE19

Reference: Nucl.Phys. A211, 1 (1973)

Authors: R.G.Helmer, C.W.Reich

Title: Half-Life of $^{178\text{m}_2}\text{Hf}$ and its Neutron Capture Production

Keyword abstract: RADIOACTIVITY $^{178\text{m}}\text{Hf}$ [from $^{177}\text{Hf}(n,\gamma)$]; measured $T_{1/2}$.

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma), E=\text{reactor spectrum}$; measured σ for production of 31-y $^{178\text{m}}\text{Hf}$.

Keynumber: 1973GRZR

Coden: JOUR BAPSA 18 592 DE10

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma); ^{178}\text{Hf}$ deduced levels.

Keynumber: 1973GRYG

Coden: REPT ANCR-1129 P33

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma), E=2 \text{ keV}$; measured $E\gamma, I\gamma$. ^{178}Hf deduced levels, J, π .

Keynumber: 1973DA30

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 37, 1129 (1973); Bull.Acad.Sci.USSR, Phys.Ser. 37, No.5, 190 (1974)

Authors: L.S.Danelyan

Title: Nonstatic Effects in γ -Ray Spectra Emitted during the Decay of Neutron Resonances in $^{147}\text{Sm}, ^{157}\text{Gd}$, and ^{177}Hf

Keyword abstract: NUCLEAR REACTIONS $^{147}\text{Sm}, ^{157}\text{Gd}, ^{177}\text{Hf}(n,\gamma), E=\text{resonance}$; measured γ -spectra; deduced non-statistical effects.

Keynumber: 1973COZD

Coden: REPT EANDC(E)157-U,P71

Keyword abstract: NUCLEAR REACTIONS $^{91}\text{Zr}, ^{156}\text{Gd}(n,X), ^{177}\text{Hf}, ^{115}\text{In}(n,\gamma)$; measured $\sigma(E, E\gamma)$. $^{92}\text{Zr}, ^{157}\text{Gd}$ deduced resonances; $^{178}\text{Hf}, ^{116}\text{In}$ deduced levels.

Keynumber: 1972ROZF

Coden: CONF Budapest,Contributions,P52,10/11/72

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=10-600 eV; measured $\sigma(E;E\gamma)$. ^{178}Hf deduced resonance parameters,level-width.

Keynumber: 1972DAZM

Coden: CONF Budapest,Contributions,P254,10/13/72

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$; measured $I\gamma$. ^{178}Hf deduced levels,J, π ,K.

Keynumber: 1972COYW

Coden: CONF Budapest,Contributions,P12,10/11/72

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , $^{177}\text{Hf}(n,\gamma)$, measured $E\gamma,I\gamma$. ^{106}Pd , ^{178}Hf deduced levels,J, π ,population ratios.

Keynumber: 1971KIZF

Coden: REPT KAPL-3944,G J Kirouac,3/23/72

Keyword abstract: NUCLEAR REACTIONS 176 , 177 , 178 , 179 , $^{180}\text{Hf}(n,\gamma)$,E=thermal; measured σ .

Keynumber: 1971FO12

Reference: Nucl.Phys. A171, 353 (1971)

Authors: B.Fogelberg, A.Backlin

Title: Levels in ^{178}Hf Studied in the (n, γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal;measured $e\gamma,I\gamma,E(\text{ce}),I(\text{ce}),\gamma\gamma$ -coin. ^{178}Hf deduced levels,J, π ,K, γ -multipolarity. Enriched target,Ge(Li) detectors.

Keynumber: 1970WE04

Reference: Phys.Rev. C1, 1501 (1970)

Authors: K.J.Wetzel, G.E.Thomas

Title: Method for Determining Spins of Neutron Resonances

Keyword abstract: NUCLEAR REACTIONS ^{95}Mo , ^{105}Pd , ^{135}Ba , ^{167}Er , ^{177}Hf , $^{183}\text{W}(n,\gamma)$, E=resonance; measured $\sigma(E\gamma)$. ^{96}Mo , ^{106}Pd , ^{136}Ba , ^{168}Er , ^{178}Hf , ^{184}W deduced resonances, J.

Keynumber: 1970GRZQ

Coden: REPT IN-1407 P142

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal,2 keV; measured $E\gamma,I\gamma$. ^{178}Hf deduced levels,J, π .

Keynumber: 1970GRZH

Coden: REPT IN-1407 P143

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma)$,E=thermal,2 keV; measured $E\gamma,I\gamma$. ^{178}Hf deduced levels,J, π ,K.

Keynumber: 1970COZG

Coden: REPT R T FI 7055,C Cocera,8/28/72

Keyword abstract: NUCLEAR REACTIONS 177 , $^{179}\text{Hf}(n,\gamma)$,E <300 eV; measured $I\gamma,\sigma(E;E\gamma)$. 178 , ^{180}Hf deduced resonances,J,level density.

Keynumber: 1970COZB

Reference: RT/FI-7055 (1970)

Authors: C.Coceva, F.Corvi, P.Giacobbe, M.Stefanon

Title: Spin-Dependence of Level Density in ^{178}Hf and ^{180}Hf by Resonance Neutron Capture Experiments

Keyword abstract: NUCLEAR REACTIONS $^{177}, ^{179}\text{Hf}(n,\gamma), E < 300 \text{ eV}$; measured $\sigma(E,\gamma,\theta)$. $^{178}, ^{180}\text{Hf}$ deduced resonances, J, π .

Keynumber: 1969PR14

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 33, 1655 (1969); See Also ANL-trans-815; Bull.Acad. Sci.USSR, Phys.Ser. 33, 1518 (1970)

Authors: P.T.Prokofev, G.L.Rezvaya

Title: The Level Scheme for ^{178}Hf

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma), E = \text{thermal}$; measured $E\gamma, I(\text{ce})$. ^{178}Hf deduced levels, J, π, γ -multipolarity, ICC. Enriched target.

Keynumber: 1969FA01

Reference: Nucl.Phys. A123, 616 (1969)

Authors: K.T.Faler, R.R.Spencer, R.A.Harlan

Title: Excited States in ^{178}Hf from Resonance Neutron-Capture Gamma-Ray Studies

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma), E = 0.06-8.8 \text{ eV}$; measured $E\gamma, \gamma\gamma$ -coin, resonance capture; deduced Q . ^{178}Hf deduced levels. Enriched target, Ge(Li) detector.

Keynumber: 1968PR17

Reference: Latvijas PSR Zinatnu Akad.Vestis, Fiz.Teh.Zinatnu Ser., No.5 (1968)

Authors: P.Prokofev, G.Rezvaya

Title: Levels of ^{178}Hf Subjected to Excitation at (n, e^-) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{177}\text{Hf}(n,\gamma), E = \text{thermal}$; measured $E(\text{ce}), I(\text{ce})$. ^{178}Hf transitions deduced ICC, γ -multipolarity.

Keynumber: 1967CH37

Reference: J.Nucl.Sci.(Seoul) 7, 12 (1967)

Authors: M.-K.Chung

Title: High Resolution Gamma-Ray Spectroscopy with Lithium Ion Drifted Germanium Detectors - Part II

Keyword abstract: RADIOACTIVITY $^{46\text{m}}\text{Sc}, ^{71}\text{Zn}, ^{75\text{m}}, ^{77\text{m}}\text{Ge}, ^{108}, ^{110}\text{Ag}, ^{161}\text{Gd}, ^{183\text{m}}, ^{185\text{m}}\text{W}, ^{235}\text{U}$; measured $E\gamma, I\gamma$.

Keyword abstract: NUCLEAR REACTIONS $^{149}\text{Sm}, ^{177}\text{Hf}(n,\gamma), E = \text{thermal}$; measured $E\gamma, I\gamma$. $^{150}\text{Sm}, ^{178}\text{Hf}$ deduced transitions.

Keynumber: 1966VO04

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

Authors: R.H.Vogt

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

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