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36 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: 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 ${}^{113}\text{Cd}, {}^{123}, {}^{124}\text{Te}, {}^{127}\text{I}, {}^{134}, {}^{136}, {}^{137}, {}^{138}\text{Ba}, {}^{139}\text{La}, {}^{142}, {}^{143}, {}^{145}\text{Nd}, {}^{149}\text{Sm}, {}^{155}, {}^{157}\text{Gd}, {}^{159}\text{Tb}, {}^{162}, {}^{163}, {}^{164}\text{Dy}, {}^{165}\text{Ho}, {}^{167}\text{Er}, {}^{169}\text{Tm}, {}^{173}, {}^{174}, {}^{176}\text{Yb}, {}^{175}, {}^{176}\text{Lu}, {}^{177}, {}^{178}, {}^{179}, {}^{180}\text{Hf}, {}^{181}\text{Ta}, {}^{182}, {}^{186}\text{W}, {}^{187}, {}^{189}\text{Os}, {}^{191}\text{Ir}, {}^{195}\text{Pt}, {}^{197}\text{Au}, {}^{199}\text{Hg}(n,\gamma), E \text{ not given};$ 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 ${}^{113}\text{Cd}, {}^{127}\text{I}, {}^{123}\text{Te}, {}^{134}, {}^{136}, {}^{137}, {}^{138}\text{Ba}, {}^{142}, {}^{143}, {}^{145}\text{Nd}, {}^{149}\text{Sm}, {}^{155}, {}^{157}\text{Gd}, {}^{159}\text{Tb}, {}^{165}\text{Ho}, {}^{162}, {}^{163}, {}^{164}\text{Dy}, {}^{167}\text{Er}, {}^{169}\text{Tm}, {}^{173}, {}^{174}, {}^{176}\text{Yb}, {}^{175}, {}^{176}\text{Lu}, {}^{177}, {}^{178}, {}^{179}, {}^{180}\text{Hf}, {}^{195}\text{Pt}, {}^{199}\text{Hg}, {}^{181}\text{Ta}, {}^{182}, {}^{186}\text{W}, {}^{191}\text{Ir}, {}^{197}\text{Au}(n,\gamma), E=\text{thermal};$ analyzed γ spectra, $\gamma\gamma$ -coin. ${}^{114}\text{Cd}, {}^{124}\text{Te}, {}^{137}, {}^{138}, {}^{139}\text{Ba}, {}^{146}\text{Nd}, {}^{150}\text{Sm}, {}^{156}, {}^{158}\text{Gd}, {}^{160}\text{Tb}, {}^{164}\text{Dy}, {}^{168}\text{Er}, {}^{170}\text{Tm}, {}^{174}\text{Yb}, {}^{181}\text{Hf}, {}^{196}\text{Pt}, {}^{200}\text{Hg}, {}^{182}\text{Ta}, {}^{183}\text{W}, {}^{192}\text{Ir}, {}^{198}\text{Au}$ deduced two-quantum cascade intensities vs excitation energy, level density parameters, pairing features.

Keynumber: 1994GEZY

Reference: Proc.8th Int.Symposium on Capture Gamma-Ray Spectroscopy and Related Topic, Fribourg, Switzerland, 20-24 September 1993, J.Kern, Ed., World Scientific, Singapore, p.581 (1994)

Authors: G.P.Georgiev, Yu.V.Grigoriev, G.V.Muradyan, N.B.Yaneva

Title: Multiplicity of Gamma-Rays in Neutron Resonances of ${}^{176}\text{Hf}$ and ${}^{179}\text{Hf}$

Keyword abstract: NUCLEAR REACTIONS ${}^{176}, {}^{179}\text{Hf}(n,\gamma), E \text{ not given};$ measured γ -multiplicity vs resonance spin. ${}^{176}, {}^{179}\text{Hf}$ deduced resonance features.

Keynumber: 1990GRZS

Reference: Program and Thesis, Proc.40th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Leningrad, p.113 (1990)

Authors: E.P.Grigorev, I.A.Kondurov, Yu.E.Loginov, V.V.Martynov, Kh.K.Rodriges

Title: Gamma-Gamma Coincidences in ^{180}Hf from (n,γ) Reaction

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma),E=\text{reactor}$; measured $\gamma\gamma$ -coin, $I\gamma,\gamma\gamma(t)$. ^{180}Hf levels deduced $T_{1/2}$. Ge(Li) detectors.

Keynumber: 1990BOZT

Reference: JINR-P6-90-173 (1990)

Authors: S.T.Boneva, E.V.Vasileva, V.D.Kulik, Le Khong Kkhem, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov

Title: The Investigation of Two-Quanta Cascades and ^{180}Hf Compound-State Decay Scheme Excited in the Reaction $^{179}\text{Hf}(n,2\gamma)$

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma),E=\text{thermal}$; measured $E\gamma,I\gamma,\gamma\gamma$ -coin. ^{180}Hf deduced levels, J,π . Amplitude summation method,two quanta cascades.

Keynumber: 1990BOZO

Reference: Program and Thesis, Proc.40th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Leningrad, p.115 (1990)

Authors: S.T.Boneva, E.V.Vasileva, V.D.Kulik, Le Khong Kkhem, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov

Title: Spin of Compound State of ^{180}Hf Excited in Thermal-Neutron Capture

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma),E=\text{thermal}$; measured $\gamma\gamma$ -coin, $I\gamma$. ^{180}Hf resonances deduced J,π .

Keynumber: 1990BOZN

Reference: Program and Thesis, Proc.40th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Leningrad, p.116 (1990)

Authors: S.T.Boneva, E.V.Vasileva, E.P.Grigorev, V.D.Kulik, Le Khong Kkhem, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov

Title: Some Properties of Decay of 1539-keV State in ^{180}Hf

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma),E=\text{thermal}$; measured $\gamma\gamma$ -coin, $I\gamma$. ^{180}Hf levels deduced γ -branching.

Keynumber: 1990BOZM

Reference: Program and Thesis, Proc.40th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Leningrad, p.118 (1990)

Authors: S.T.Boneva, E.V.Vasileva, V.D.Kulik, Le Khong Kkhem, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov

Title: Decay of ^{180}Hf Levels Excited by Intense Two-Step Transitions

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma),E$ not given; measured $\gamma\gamma$ -coin. ^{180}Hf deduced levels.

Keynumber: 1990BO52

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 54, 1787 (1990); Bull.Acad.Sci.USSR, Phys.Ser. 54, No.9, 118 (1990)

Authors: S.T.Boneva, E.V.Vasileva, V.D.Kulik, L.K.Kkhem, Yu.P.Popov, A.M.Sukhovoi,

V.A.Khitrov, Yu.V.Kholnov

Title: Two-Quantum Cascades and Decay Scheme of the Compound State of ^{180}Hf Excited in the Reaction $^{179}\text{Hf}(n,2\gamma)$

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma$, $I\gamma$,two-quantum cascades. ^{180}Hf deduced levels, J,π,γ -multipolarity.

Keynumber: 1990BO50

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 54, 836 (1990); Bull.Acad.Sci.Ussr, Phys.Ser. 54, No.5, 19 (1990)

Authors: S.T.Boneva, E.V.Vasileva, V.D.Kulik, H.H.Le, Yu.P.Popov, A.Sukhovi, V.A.Khitrov, Yu.V.Kholnov

Title: The Spin of the Compound State of ^{180}Hf Excited by Thermal-Neutron Capture in ^{179}Hf

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$,E=thermal; measured $\gamma\gamma$ -coin. ^{180}Hf deduced levels,possible J,π ,role in capture process.

Keynumber: 1988MU26

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 52, 2216 (1988); Bull.Acad.Sci.USSR, Phys.Ser. 52, No.11, 135 (1988)

Authors: A.V.Murzin

Title: Gamma Spectroscopy Based on Filtered Neutron Beams of an Atomic Reactor

Keyword abstract: NUCLEAR REACTIONS ^{179}Hf , ^{191}Ir , 143 , ^{145}Nd , $^{50}\text{V}(n,\gamma)$,E=reactor; measured γ -spectra,reduced intensities; deduced correlation coefficient.

Keynumber: 1988BO44

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 52, 2082 (1988); Bull.Acad.Sci.USSR, Phys.Ser. 52, No.11, 1 (1988)

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

Title: Method of Summing the Amplitudes of Coinciding Pulses in Radiative Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{144}Nd , 163 , ^{165}Dy , ^{168}Er , ^{175}Yb , 178 , ^{179}Hf , $^{183}\text{W}(n,\gamma)$,E not given; analyzed capture- γ data. Coincident pulse amplitude summing technique.

Keynumber: 1986ROZM

Reference: Program and Theses, Proc.36th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.129 (1986)

Authors: A.A.Rodionov, S.L.Sakharov, Yu.L.Khazov

Title: Internal Conversion Electrons from Reaction $^{179}\text{Hf}(n,\gamma)$

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$,E=thermal; measured γ -,ce-spectra. ^{180}Hf transitions deduced ICC, γ -multipolarity. Magnetic β -spectrometer.

Keynumber: 1985GRZR

Reference: Program and Theses, Proc.35th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Leningrad, p.132 (1985)

Authors: E.P.Grigorev, I.A.Kondurov, Yu.E.Loginov, V.V.Martynov, O.Dias Riso, Ks.K.Rodrigues

Title: Gamma-Radiation of ^{180}Hf in the Reaction (n,γ)

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$,E=thermal; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{180}Hf deduced transitions. Enriched target,Ge(Li) detectors.

Keynumber: 1984PR03

Reference: Z.Phys. A315, 103 (1984)

Authors: W.V.Prestwich, M.A.Islam, T.J.Kennett

Title: Primary E2 Transitions Observed following Neutron Capture for the Mass Region $144 \leq A \leq 180$

Keyword abstract: NUCLEAR REACTIONS ^{143}Nd , 162 , ^{164}Dy , ^{165}Ho , ^{167}Er , ^{173}Yb , ^{179}Hf

(n, γ),E=thermal; measured $E\gamma$, $I\gamma$. ^{144}Nd , 163 , ^{165}Dy , ^{166}Ho , ^{168}Er , ^{174}Yb , ^{180}Hf deduced E2 transition $\Gamma\gamma$ upper limits. Axel-Brink hypothesis based analysis.

Keynumber: 1984MUZV

Reference: Program and Theses, Proc.34th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Alma-Ata, p.144 (1984)

Authors: A.V.Murzin, V.A.Libman, I.V.Kononenko

Title:

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$,E \approx 2 keV; measured $E\gamma$, $I\gamma$. ^{180}Hf levels deduced J, π .

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: 1982BE47

Reference: Phys.Rev. C26, 1404 (1982)

Authors: H.Beer, R.L.Macklin

Title: 178 , 179 , ^{180}Hf and $^{180}\text{Ta}(n,\gamma)$ Cross Sections and Their Contribution to Stellar Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS 178 , 179 , $^{180}\text{Hf}(n,\gamma)$,E=2.6-2000 keV; measured $\sigma(E)$; deduced ^{180}Ta s-,r-process nucleosynthesis. ^{180}Hf deduced parameters,strength functions,average level spacings,r-process abundance. 179 , ^{181}Hf deduced resonance parameters,strength functions,average level spacings. Maxwellian averaging procedure.

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 , $^{243}\text{Am}(n,\gamma)$; calculated total $\Gamma\gamma$ assuming dipole transitions.

Keynumber: 1975SMZM

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

Authors: R.K.Smither, 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=thermal; measured γ -spectra. 178 , ^{180}Hf deduced levels,K,J, π .

Keynumber: 1975MA19

Reference: Z.Phys. A272, 273 (1975)

Authors: W.Mannhart

Title: Messung von thermischen Aktivierungs-Wirkungsquerschnitten mit hoher Genauigkeit

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc , ^{115}In , ^{139}La , 179 , $^{180}\text{Hf}(n,\gamma)$, E=thermal; measured $\sigma(E\gamma)$.

Keynumber: 1975BUZY

Coden: JOUR BAPSA 20 96 KE3

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

Keynumber: 1974BU22

Reference: Phys.Rev. C10, 2483 (1974)

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

Title: ^{180}Hf Energy Levels Deduced from Thermal and Average Resonance Neutron-Capture γ -Ray Spectra

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$, E=thermal, 0.3-2.1, 4.7-7.4 MeV; measured $E\gamma, I\gamma$. ^{180}Hf deduced levels, K, J, π , γ -branching ratios.

Keynumber: 1973SMZH

Coden: REPT ANL-8035 P18

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

Keynumber: 1973ANYZ

Reference: Proc.Int Conf.Nuclear Physics, Munich, J.de Boer, H.J.Mang, Eds., North-Holland Publ.Co., Amsterdam, Vol.1, p.296 (1973)

Authors: W.Andrejscheff, P.Manfrass, K.D.Schilling, W.Seidel

Title: Nanosecond Isomeric States in Deformed Nuclei

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

Keynumber: 1972SMZI

Coden: REPT ANL-7971, R Smith, 2/27/73

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$, E=thermal, resonance; measured $E\gamma, I\gamma$. ^{180}Hf deduced levels, J, π .

Keynumber: 1972SI20

Reference: J.Phys.(London), A5, 877 (1972)

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

Title: p Wave Neutron Capture in Medium and Heavy Weight Nuclei

Keyword abstract: NUCLEAR REACTIONS 74 , ^{78}Se , ^{84}Sr , ^{109}Ag , ^{122}Te , ^{159}Tb , ^{169}Tm , 174 , ^{176}Yb , 178 , ^{179}Hf , $^{192}\text{Os}(n,\gamma)$, E=25 keV; measured average σ .

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: 1971BUZV

Coden: REPT BNL-50298,P16,10/21/71

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$; deduced Q. ^{180}Hf deduced levels, J, π .

Keynumber: 1970MUZS

Coden: CONF Madurai(Nucl,Solid State Phys),Vol2,P29

Keyword abstract: NUCLEAR REACTIONS ^{74}Se , ^{84}Sr , ^{109}Ag , ^{122}Te , ^{159}Tb , ^{168}Yb , 174 , ^{176}Yb , ^{169}Tm , 178 , ^{179}Hf , ^{191}Ir , $^{192}\text{Os}(n,\gamma)$, E=25 MeV; measured σ .

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 eV; measured $\sigma(E\gamma, \theta)$. 178 , ^{180}Hf deduced resonances, J, π .

Keynumber: 1970BUZY

Reference: Bull.Amer.Phys.Soc. 15, No.4, 524, DF16 (1970)

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

Title: Level Scheme of Hf^{180}

Keyword abstract: NUCLEAR REACTIONS $^{179}\text{Hf}(n,\gamma)$, E = thermal; measured $E\gamma, I\gamma$; deduced Q. ^{180}Hf deduced levels, J, π .

Keynumber: 1967BO49

Reference: Radiochim.Acta 8, 188 (1967)

Authors: A.Boudin, F.Hanappe

Title: Le $^{180\text{m}}\text{Hf}$ dans l'Analyse par Activation du Hafnium

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