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32 reference(s) found :

Keynumber: [2000WI08](#)

Reference: Phys.Rev. C61, 065801 (2000)

Authors: K.Wisshak, F.Voss, C.Arlandini, F.Kappeler, L.Kazakov

Title: Stellar Neutron Capture Cross Sections of the Yb Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{170, 171, 172, 173, 174, 176}\text{Yb}(n,\gamma)$, (n,X) , $E=3-225$ keV; measured total, capture σ , isomer ratios; deduced Maxwellian averaged σ . Implications for stellar nucleosynthesis discussed.

Keynumber: 1998WIZW

Reference: Proc.Intern.Symposium on Nuclear Astrophysics, Nuclei in the Cosmos V, Volos, Greece, July 6-11, 1998, N.Prantzos, S.Harissopoulos, Eds., Editions Frontieres, Paris, p.212 (1998)

Authors: K.Wisshak, F.Voss, C.Arlandini, F.Kappeler, T.Rauscher

Title: Neutron Capture in Dy and Yb Isotopes: Implications for the s-process

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , $^{160, 161, 162, 163, 164}\text{Dy}$, $^{170, 171, 172, 173, 174, 176}\text{Yb}(n,\gamma)$, $E=3-225$ keV; measured capture σ ; deduced stellar capture σ , s-process implications.

Keynumber: 1986AN14

Reference: J.Phys.(London) G12, L151 (1986)

Authors: W.Andrejscheff, P.Petkov, Ch.Protochristow, L.K.Kostov, W.D.Hamilton, F.Hoyler

Title: A Mixed Symmetry or Quasineutron Pair Interpretation of the $K(\pi) = 0^+_3$ Level in ^{172}Yb

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, $E=\text{thermal}$; measured $\gamma\gamma$ -coin. ^{172}Yb deduced levels, $T_{1/2}$, γ -branching, γ -multipolarity, $B(\lambda)$, configuration.

Keynumber: 1985GEZZ

Reference: Priv.Comm. (October 1985)

Authors: W.Gelletly, J.R.Larysz, H.G.Borner, R.F.Casten, W.F.Davidson, W.Mampe, K.Schreckenbach, D.D.Warner

Title: The $^{171}\text{Yb}(n,\gamma)^{171}\text{Yb}$ Reaction and the Level Scheme of ^{171}Yb

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $I(\text{ce})$, $\gamma\gamma$ -coin. ^{172}Yb deduced levels, J, π, γ -multipolarity, ICC. Curved-crystal, β^- , pair, Ge(Li) spectrometers, enriched targets.

Keynumber: 1985GE02

Reference: J.Phys.(London) G11, 1055 (1985)

Authors: W.Gelletly, J.R.Larysz, H.G.Borner, R.F.Casten, W.F.Davidson, W.Mampe, K.Schreckenbach, D.D.Warner

Title: The Reaction $^{171}\text{Yb}(n,\gamma)^{172}\text{Yb}$ and the Level Scheme of ^{172}Yb

Keyword abstract: NUCLEAR STRUCTURE $^{160, 162, 164, 166, 168, 170, 172, 174, 176}\text{Yb}$; calculated $B(E2)$, ratios. Interacting boson model.

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$, $I(\text{ce})$, $\gamma\gamma$ -coin. ^{172}Yb deduced levels, J, π, γ -multipolarity, γ -branching, $B(E2)$. Curved crystal, β^- , pair, Ge(Li) spectrometers, enriched targets.

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 $^{160, 161}\text{Dy}$, $^{170, 171}\text{Yb}$, $^{175, 176}\text{Lu}$, and $^{176, 177}\text{Hf}$ for the s-Process Analysis of the Radionuclide ^{176}Lu

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

Keynumber: 1981BE34

Reference: Yad.Fiz. 33, 3 (1981)

Authors: F.Becvar, J.Honzatko, M.Kralik, Nguyen Dang Nhuan, T.Stadnikov, S.A.Telezhnikov

Title: Experimental Test of Quasiparticle-Phonon Model by the Neutron Radiative Capture in the Deformed Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{154}Gd , $^{171, 173}\text{Yb}$, ^{167}Er , $^{185}\text{Re}(n,\gamma)$, $E=\text{resonance}$; measured $\sigma(E\gamma)$. ^{168}Er , ^{155}Gd , $^{172, 174}\text{Yb}$, ^{186}Re resonances deduced Γ_γ, Γ_n correlation. Quasiparticle phonon model.

Keynumber: 1978LA14

Reference: Nucl.Phys. A309, 128 (1978)

Authors: J.Larysz, K.Schreckenbach, W.F.Davidson, H.G.Borner, D.D.Warner, R.F.Casten, W.Gelletly

Title: Electric Monopole Transitions from Excited $K\pi = 0^+$ Levels in ^{172}Yb and ^{174}Yb

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}(n,\gamma)$, $E=\text{th}$; measured $I(\text{ce})$. ^{172}Yb deduced B (E0). ^{174}Yb deduced no E0 transitions. Bent crystal, precision magnetic spectrometers.

Keynumber: 1977LAZT

Coden: JOUR VDPEA No6/1977,940,A8-3,Laryse

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}(n,\gamma)$, $E=\text{th}$; measured γ, ce spectra. $^{172, 174}\text{Yb}$ deduced levels, δ .

Keynumber: 1977LAZD

Reference: Thesis, Univ.Manchester (1977)

Authors: J.Larysz

Title: Thermal Neutron Capture Studies of ^{172}Yb - ^{174}Yb

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}(n,\gamma)$, $E=\text{th}$; measured $E_\gamma, I_\gamma, I(\text{ce})$; deduced Q. $^{172, 174}\text{Yb}$ deduced levels, K, J, π , B(λ), Sn.

Keynumber: 1975GR32

Reference: Nucl.Phys. A252, 260 (1975)

Authors: R.C.Greenwood, C.W.Reich, S.H.Vegors, Jr.

Title: Level Structure of ^{172}Yb from the $^{171}\text{Yb}(n,\gamma)$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, $E=\text{thermal}, 2$ keV; measured E_γ, I_γ . ^{172}Yb deduced levels, J, π , B(λ), neutron binding energy. Enriched, natural targets. Ge(Li) detectors.

Keynumber: 1974SH25

Reference: Yad.Fiz. 20, 1092 (1974); Sov.J.Nucl.Phys. 20, 572 (1975)

Authors: V.S.Shorin, V.N.Kononov, E.D.Poletaev

Title: Cross Sections for Radiative Neutron Capture in the Energy Range 5-80 keV for Yb Isotopes

Keyword abstract: NUCLEAR REACTIONS 171 , 172 , 173 , 174 Yb(n, γ),E=5-80 keV; measured relative $\sigma(E,E\gamma)$.

Keynumber: 1973WI19

Reference: Z.Naturforsch. 28a, 226 (1973)

Authors: L.Wimmer

Title: (n, γ)-Studien an Yb 172 und Yb 174

Keyword abstract: NUCLEAR REACTIONS 171 , 173 Yb(n, γ),E=thermal; measured $E\gamma$,I γ . 172 , 174 Yb deduced levels,J, π .

Keynumber: 1973LI03

Reference: Phys.Rev. C7, 823 (1973)

Authors: H.I.Liou, H.S.Camarda, G.Hacken, F.Rahn, J.Rainwater, M.Slagowitz, S.Wynchank

Title: Neutron Resonance Spectroscopy. XI. The Separated Isotopes of Yb

Keyword abstract: NUCLEAR REACTIONS 170 , 171 , 172 , 173 , 174 , 176 Yb(n,X), (n, γ),E <20 keV; measured $\sigma(E)$, $\sigma(nT)(E)$ 171 , 172 , 173 , 174 , 175 , 177 Yb deduced resonances,level-width.

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 $E\gamma$. 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: 1972RA26

Reference: Nucl.Sci.Eng. 48, 219 (1972)

Authors: F.Rahn, H.S.Camarda, G.Hacken, W.W.Havens,Jr., H.I.Liou, J.Rainwater, M.Slagowitz, S.Wynchank

Title: Values of the Neutron Resonance Capture Integral for Some Rare Earth Isotopes

Keyword abstract: NUCLEAR REACTIONS 152 , 154 Sm, 153 Eu, 154 , 158 , 160 Gd, 166 , 167 , 168 , 170 Er, 168 , 170 , 171 , 172 , 174 , 176 Yb, 175 Lu, 182 , 183 , 184 , 186 W(n, γ); calculated resonance integrals.

Keynumber: 1972KAZH

Reference: Contrib.Conf.Nucl.Structure Study with Neutrons, Budapest, p.20 (1972)

Authors: E.N.Karzhavina, Kim Sek su, A.B.Popov

Title: The Determination of Spins of Neutron Resonances by the Gamma-Ray Multiplicity Method

Keyword abstract: NUCLEAR REACTIONS 105 Pd, 147 , 149 Sm,Sb, 171 Yb(n, γ), measured $\gamma\gamma$ -coin. 106 Pd, 148 , 150 Sm deduced resonances,J.

Keynumber: 1971MOZJ

Coden: REPT BNL-50298,P23,10/21/71

Keyword abstract: NUCLEAR REACTIONS 171 Yb(n, γ),E <130 eV; measured $E\gamma$,I γ . 172 Yb deduced resonances,J, π .

Keynumber: 1971HAXR

Coden: REPT NCSAC-42,P61,G Hacken,5/19/72

Keyword abstract: NUCLEAR REACTIONS $^{152, 154}\text{Sm}$, $^{151, 153}\text{Eu}$, $^{154, 158, 160}\text{Gd}$, $^{166, 167, 168, 170}\text{Er}$, $^{168, 170, 171, 172, 174, 176}\text{Yb}$, ^{175}Lu , $^{182, 183, 184, 186}\text{W}(n,\gamma)$, measured capture resonance integrals.

Keynumber: 1971GRYH

Coden: REPT ANCR-1016,P29,1/28/72.

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}$, $^{183}\text{W}(n,\gamma)$, E=thermal,2 keV; measured I_γ . $^{172, 174}\text{Yb}$, ^{184}W deduced transitions.

Keynumber: 1971GRXL

Reference: ANCR-1016, p.29 (1971)

Authors: R.C.Greenwood, C.W.Reich

Title: Neutron Capture γ -Ray Studies Using the 2-keV Neutron Beam Facility

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}$, ^{183}W , $\text{W}(n,\gamma)$, E=thermal,2 keV; measured E_γ, I_γ ; deduced capture σ . $^{172, 174}\text{Yb}$, $^{183, 184, 185, 187}\text{W}$ deduced transitions.

Keynumber: 1971GRXG

Coden: REPT ANCR-1016,P29,1/28/72

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}$, $^{183}\text{W}(n,\gamma)$, E = thermal,2 keV; measured E_γ, I_γ . $^{172, 174}\text{Yb}$, ^{184}W deduced transitions, γ -branching.

Keynumber: 1971DO19

Reference: Int.J.Mass Spectrom.Ion Phys. 6, 435 (1971)

Authors: R.Dobrozemsky, F.Pichlmayer, F.P.Viehbock

Title: Massenspektrometrische Bestimmung der Neutronen-Einfangsquerschnitte von Isotopen der Seltenen Erden

Keyword abstract: NUCLEAR REACTIONS $^{147, 148}\text{Sm}$, $^{154, 158}\text{Gd}$, $^{160, 161, 162, 163}\text{Dy}$, ^{166}Er , $^{170, 171, 172, 173}\text{Yb}(n,\gamma)$, E=pile,thermal; measured σ ; deduced effective resonance integral.

Keynumber: 1971COZZ

Reference: Bull.Am.Phys.Soc. 16, No.4, 496, AH10 (1971)

Authors: G.W.Cole, S.F.Mughabghab, O.A.Wasson, R.E.Chrien

Title: Resonant Neutron Capture in $^{171}\text{Yb}(n,\gamma)^{172}\text{Yb}$

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, E=resonance; measured E_γ, I_γ . ^{172}Yb deduced resonances.

Keynumber: 1971AL14

Reference: Phys.Scr. 3, 55 (1971)

Authors: G.Alenius, S.E.Arnell, C.Schale, E.Wallander

Title: Thermal Neutron Capture Investigation of the ^{172}Yb and ^{174}Yb Level Structures

Keyword abstract: NUCLEAR REACTIONS $^{171, 173}\text{Yb}(n,\gamma)$, E=thermal; measured E_γ, I_γ ; deduced Q. $^{172, 174}\text{Yb}$ deduced levels, J, π , K, γ -branching. Ge(Li) pair, anti-Compton spectrometer.

Keynumber: 1970GRZS

Coden: REPT IN-1407 P114

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, E=thermal,2 keV; measured E_γ, I_γ . ^{172}Yb deduced levels, J, π , K, γ -branching.

Keynumber: 1970GRZJ

Coden: REPT IN-1407 P114

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, E=thermal, 2 keV; measured $E\gamma, I\gamma$. ^{172}Yb deduced levels, J, π , B(λ).

Keynumber: 1970GRYQ

Reference: IN-1407, p.114 (1970)

Authors: R.C.Greenwood, C.W.Reich, S.H.Vegors, Jr.

Title: Levels in ^{172}Yb from $^{171}\text{Yb}(n,\gamma)$

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, E=thermal; measured $E\gamma, I\gamma$. ^{172}Yb deduced levels, J, π , K.

Keynumber: 1970GR31

Reference: Phys.Lett. 33B, 213 (1970)

Authors: R.C.Greenwood, C.W.Reich, S.H.Vegors, Jr.

Title: Excited $K\pi = 0^+$ Bands in ^{172}Yb

Keyword abstract: NUCLEAR REACTIONS $^{171}\text{Yb}(n,\gamma)$, E=thermal, 2 keV; measured $E\gamma, I\gamma$. ^{172}Yb deduced levels, J, π , K, γ -branching.

Keynumber: 1969NAZV

Reference: Contrib.Intern.Conf.Properties Nucl.States, Montreal, Canada, p.26 (1969)

Authors: A.I.Namenson, J.C.Ritter

Title: Regularities in Gamma Spectra Resulting from Thermal Neutron Capture by Even-Even Yb Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{170, 171, 172, 173, 174}\text{Yb}(n,\gamma)$; measured $E\gamma, I\gamma$. Deduced Q. $^{171, 172, 173, 174, 175}\text{Yb}$ deduced levels.

Keynumber: 1969NA08

Reference: Phys.Rev. 183, 983 (1969)

Authors: A.I.Namenson, J.C.Ritter

Title: Thermal-Neutron-Capture Gamma Rays in Yb^{170} , Yb^{172} , and Yb^{174}

Keyword abstract: NUCLEAR REACTIONS $^{170, 171, 172, 173, 174}\text{Yb}(n,\gamma)$, E = thermal; measured $E\gamma, I\gamma$; deduced Q. $^{171, 172, 173, 174, 175}\text{Yb}$ deduced levels, J, π . Ge(Li) detector.

Keynumber: 1966WAZZ

Reference: Proc.Intern.Conf.Study of Nucl.Struct.with Neutrons, Antwerp, Belgium (1965), M.N.De Mevergnies, P.Van Assche, J.Vervier, Eds., North-Holland Publishing Co., Amsterdam, p.572(1966); EANDC-50-S, Paper 187

Authors: N.-Y.Wang, E.N.Karzhavina, A.B.Popov, Y.S.Yazvitsky, C.-C.Yao

Title: Neutron Resonances of Yb Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{171, 172, 173, 174, 176}\text{Yb}(n,\gamma)$, E <150 eV; measured $\sigma(E)$. $^{172, 174}\text{Yb}$ deduced resonances, strength functions.