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### 35 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  $\sigma$ , isomer ratios; deduced Maxwellian averaged  $\sigma$ . Implications for stellar nucleosynthesis discussed.

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**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  $(n,\gamma)$  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.

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**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:**  $(n,\gamma)$  Reactions in Heavy Nuclei: Manifestations of nuclear structure at excitation energies up to the neutron binding energy

**Keyword abstract:** NUCLEAR REACTIONS  $^{113}\text{Cd}$ ,  $^{123, 124}\text{Te}$ ,  $^{127}\text{I}$ ,  $^{134, 136, 137, 138}\text{Ba}$ ,  $^{139}\text{La}$ ,  $^{142, 143, 145}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{155, 157}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{162, 163, 164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{167}\text{Er}$ ,  $^{169}\text{Tm}$ ,  $^{173, 174, 176}\text{Yb}$ ,  $^{175, 176}\text{Lu}$ ,  $^{177, 178, 179, 180}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{182, 186}\text{W}$ ,  $^{187, 189}\text{Os}$ ,  $^{191}\text{Ir}$ ,  $^{195}\text{Pt}$ ,  $^{197}\text{Au}$ ,  $^{199}\text{Hg}(n,\gamma)$ ,  $E$  not given; analyzed two-photon  $\gamma$  cascade data; deduced structure effects.

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

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**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  $\gamma$  spectra,  $\gamma\gamma$ -coin.  $^{114}\text{Cd}$ ,  $^{124}\text{Te}$ ,  $^{137, 138, 139}\text{Ba}$ ,  $^{146}\text{Nd}$ ,  $^{150}\text{Sm}$ ,  $^{156, 158}\text{Gd}$ ,  $^{160}\text{Tb}$ ,  $^{164}\text{Dy}$ ,  $^{168}\text{Er}$ ,  $^{170}\text{Tm}$ ,  $^{174}\text{Yb}$ ,  $^{181}\text{Hf}$ ,

<sup>196</sup>Pt, <sup>200</sup>Hg, <sup>182</sup>Ta, <sup>183</sup>W, <sup>192</sup>Ir, <sup>198</sup>Au deduced two-quantum cascade intensities vs excitation energy, level density parameters, pairing features.

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**Keynumber:** 1997KHZW

**Reference:** Proc.Intern.on Nuclear Data for Science and Technology, Trieste, Italy, 19-24 May, 1997, G.Reffo, A.Ventura, C.Grandi, Eds., Editrice Compositori, Italy, Pt.1, p.750 (1997)

**Authors:** V.A.Khitrov, A.M.Sukhovoy

**Title:** States of Heavy Nuclei Strongly Excited in the (n(th), $\gamma$ )-Reaction: Possible dominant component at  $E(\text{ex}) \leq 3\text{-}5$  MeV

**Keyword abstract:** NUCLEAR REACTIONS <sup>167</sup>Er, <sup>174</sup>Yb, <sup>176</sup>Lu, <sup>181</sup>Ta(n, $\gamma$ ),E=thermal; measured  $E\gamma, I\gamma, \gamma\gamma$ -coin. <sup>168</sup>Er, <sup>175</sup>Yb, <sup>177</sup>Lu, <sup>182</sup>Ta deduced collective excitations.

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**Keynumber:** 1997KA47

**Reference:** J.Radioanal.Nucl.Chem. 215, 193 (1997)

**Authors:** S.I.Kafala, T.D.MacMahon, S.B.Borzakov

**Title:** Neutron Activation for Precise Nuclear Data

**Keyword abstract:** NUCLEAR REACTIONS <sup>45</sup>Sc, <sup>50</sup>Cr, <sup>59</sup>Co, <sup>64</sup>Zn, <sup>75</sup>As, <sup>85</sup>Rb, <sup>113</sup>In, <sup>121</sup>, <sup>123</sup>Sb, <sup>130</sup>Ba, <sup>133</sup>Cs, <sup>139</sup>La, <sup>140</sup>, <sup>142</sup>Ce, <sup>146</sup>Nd, <sup>151</sup>, <sup>153</sup>Eu, <sup>152</sup>Gd, <sup>152</sup>Sm, <sup>159</sup>Tb, <sup>165</sup>Ho, <sup>174</sup>Yb, <sup>180</sup>Hf, <sup>181</sup>Ta, <sup>186</sup>W, <sup>232</sup>Pa, <sup>238</sup>Np(n, $\gamma$ ),E=reactor; measured  $E\gamma, I\gamma$ ; deduced capture  $\sigma$ , resonance integral, least-squares fit parameters. Multi-element standard.

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**Keynumber:** 1996SI10

**Reference:** Appl.Radiat.Isot. 47, 389 (1996)

**Authors:** A.Simonits, F.De Corte, A.De Wispelaere

**Title:** The <sup>174</sup>Yb(n, $\gamma$ )<sup>175</sup>Yb Reaction: A convincing new argument for  $k_0$ -standardization in absolute neutron activation analysis

**Keyword abstract:** NUCLEAR REACTIONS <sup>174</sup>Yb(n, $\gamma$ ); analyzed data on  $\sigma, \gamma$  emission probabilities; deduced  $k_0$ -standardization in absolute neutron activation analysis.

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**Keynumber:** 1993VA02

**Reference:** Yad.Fiz. 56, No 2, 13 (1993); Phys.Atomic Nuclei 56, 154 (1993)

**Authors:** E.V.Vasileva, A.V.Voinov, V.D.Kulik, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.V.Kholnov, V.N.Shilin

**Title:** Method for Analyzing the Nonstatistical Behavior of the Radiative Strength Function in the Capture of Thermal and Resonance Neutrons

**Keyword abstract:** NUCLEAR REACTIONS <sup>174</sup>Yb, <sup>168</sup>Er, <sup>178</sup>Hf(n, $\gamma$ ),E=thermal,2 keV; analyzed  $I\gamma$ . <sup>175</sup>Yb, <sup>169</sup>Er deduced significant deviations from mean statistical values for radiative strength function.

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**Keynumber:** 1988BOZI

**Reference:** JINR-P3-88-371 (1988)

**Authors:** S.T.Boneva, E.V.Vasileva, L.A.Malov, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov

**Title:** Intensive Two-Quantum Cascades and Quasiparticle State Fragmentation in Some Deformed Nuclei

**Keyword abstract:** NUCLEAR REACTIONS <sup>164</sup>Dy, <sup>174</sup>Yb, <sup>178</sup>Hf(n, $\gamma$ ),E=thermal; analyzed primary  $I\gamma$  distributions. <sup>165</sup>Dy, <sup>175</sup>Yb, <sup>179</sup>Hf deduced two quantum cascade enhancement features. Analyzed single quasiparticle state strength distributions.

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**Keynumber:** 1987BOZF

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

**Authors:** S.T.Boneva, V.A.Khitrov, Yu.P.Popov, A.M.Sukhovoi, E.V.Vasilieva, Yu.S.Yazvitsky

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

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

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**Keynumber:** 1986PO03

**Reference:** Yad.Fiz. 43, 17 (1986)

**Authors:** Yu.P.Popov, A.M.Sukhovoy, V.A.Khitrov, Yu.S.Yazvitsky

**Title:** On Correlations between Partial Cross Sections in Reactions  $^{174}\text{Yb}(n,2\gamma)^{175}\text{Yb}$  and  $^{176}\text{Yb}(d,t)^{175}\text{Yb}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ ,  $^{176}\text{Yb}(d,t)$ , E not given; analyzed data.  $^{175}\text{Yb}$  deduced two-quantum cascade, spectroscopic factor correlation.

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**Keynumber:** 1985PO24

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 49, 91 (1985); Bull.Acad.Sci.USSR, Phys.Ser. 49, No.1, 94 (1985)

**Authors:** Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.S.Yazvitsky

**Title:** Singularities of  $\gamma$ -Cascades that De-Excite Compound-States in the Region of the 4s-Shell

**Keyword abstract:** NUCLEAR REACTIONS  $^{164}\text{Dy}$ ,  $^{174}\text{Yb}$ ,  $^{143}\text{Nd}(n,\gamma)$ , E=thermal; analyzed coincident pulse amplitude summing data.  $^{165}\text{Dy}$ ,  $^{175}\text{Yb}$ ,  $^{144}\text{Nd}$  deduced two-quanta transition  $I\gamma$ .

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**Keynumber:** 1985DE52

**Reference:** J.Radioanal.Nucl.Chem. 92, 183 (1985)

**Authors:** F.De Corte, L.Moens, A.Simonits, J.Hoste

**Title:** Critical Evaluation and Experimental Determination of the Nuclear Activation and Decay Parameters for the Reactions:  $^{64}\text{Zn}(n,\gamma)^{65}\text{Zn}$ ,  $^{112}\text{Sn}(n,\gamma)^{113\text{m}}\text{Sn}(E.C.)^{113\text{m}}\text{In}$ ,  $^{174}\text{Yb}(n,\gamma)^{175\text{m}}\text{Yb}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{64}\text{Zn}$ ,  $^{112}\text{Sn}$ ,  $^{174}\text{Yb}(n,\gamma)$ , E=low; analyzed data; deduced  $\sigma$ . Absolute  $I\gamma$ , isotope abundance from literature evaluation.

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**Keynumber:** 1984VAZV

**Reference:** Program and Theses, Proc.34th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Alma-Ata, p.142 (1984)

**Authors:** E.V.Vasileva, Yu.P.Popov, A.M.Sukhovoy, V.A.Khitrov, Yu.S.Yazvitsky

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ , E=thermal; measured  $\gamma\gamma$ -coin.  $^{175}\text{Yb}$  deduced levels. Ge(Li) detectors, amplitude summation method.

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**Keynumber:** 1984VA38

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 48, 1907 (1984)

**Authors:** E.V.Vasileva, Yu.P.Popov, A.M.Sukhovoi, V.A.Khitrov, Yu.S.Yazvitsky

**Title:** Level Scheme of  $^{175}\text{Yb}$  Excited in the Reaction  $^{174}\text{Yb}(n,2\gamma)$

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ , E=thermal; measured  $E\gamma$ , sum spectra following two quanta emission.  $^{175}\text{Yb}$  deduced levels.

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**Keynumber:** 1982IS05

**Reference:** Phys.Rev. C25, 3184 (1982)

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

**Title:** Neutron Separation Energies of Some Heavy Nuclides

**Keyword abstract:** NUCLEAR REACTIONS  $^{142, 143, 145}\text{Nd}$ ,  $^{155, 157}\text{Gd}$ ,  $^{161, 162, 164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{174, 173}\text{Yb}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma$ .  $^{143, 144, 146}\text{Nd}$ ,  $^{156, 158}\text{Gd}$ ,  $^{162, 163, 164, 165}\text{Dy}$ ,  $^{166}\text{Ho}$ ,  $^{175, 174}\text{Yb}$  deduced neutron separation energy.

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**Keynumber:** 1974SI11

**Reference:** Ann.Phys.(New York) 83, 355 (1974)

**Authors:** K.Siddappa, M.S.Murty, J.R.Rao

**Title:** Neutron Strength Functions of Nuclei in the Deformed Region

**Keyword abstract:** NUCLEAR REACTIONS  $^{138}\text{Ba}$ ,  $^{140, 142}\text{Ce}$ ,  $^{146, 148}\text{Nd}$ ,  $^{152, 154}\text{Sm}$ ,  $^{158, 160}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{169}\text{Tm}$ ,  $^{170}\text{Er}$ ,  $^{174, 176}\text{Yb}$ ,  $^{180}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{186}\text{W}$ ,  $^{190, 192}\text{Os}$ ,  $^{197}\text{Au}$ ,  $^{202}\text{Hg}(n,\gamma)$ ,  $E=18-28\text{ keV}$ ; measured  $\sigma$ ; deduced p-wave strength functions.

**Reference:** Can.J.Phys. 52, 1160 (1974)

**Authors:** B.Singh, M.W.Johns

**Title:** Spin Determinations in Low Lying States of  $^{151}\text{Sm}$

**Keyword abstract:** RADIOACTIVITY  $^{151}\text{Pm}$ ; measured  $\gamma\gamma(\theta)$ ,  $I\gamma$ .  $^{151}\text{Sm}$  levels deduced  $J, \pi, \gamma$ -mixing,  $\lambda$ .

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**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  $^{171, 172, 173, 174}\text{Yb}(n,\gamma)$ ,  $E=5-80\text{ keV}$ ; measured relative  $\sigma(E, E\gamma)$ .

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**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  $^{143, 145}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{167}\text{Er}$ ,  $^{174}\text{Yb}$ ,  $^{175, 176}\text{Lu}$ ,  $^{177, 178}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{186}\text{W}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma, I(\text{ce})$ . Deduced ICC.  $^{151}\text{Eu}$ ,  $^{155}\text{Gd}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I(\text{ce})$ . Deduced ICC.  $^{157}\text{Gd}$ ,  $^{162, 164}\text{Dy}$ ,  $^{165}\text{Ho}$ ,  $^{168}\text{Yb}$ ,  $^{169}\text{Tm}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $I(\text{ce})$ . 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,  $J, \pi$ ,  $\gamma$ -multipolarities.  $^{146}\text{Nd}$ ,  $^{185}\text{W}$ ,  $^{194}\text{Ir}$  deduced levels,  $J, \pi$ .  $^{152}\text{Eu}$  deduced transitions,  $\gamma$ -multipolarities.  $^{187}\text{W}$ ,  $^{192}\text{Ir}$  deduced transitions.

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**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  $^{170, 171, 172, 173, 174, 176}\text{Yb}(n, X)$ ,  $(n,\gamma)$ ,  $E < 20\text{ keV}$ ; measured  $\sigma(E), \sigma(nT)(E)$ .  $^{171, 172, 173, 174, 175, 177}\text{Yb}$  deduced resonances, level-width.

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

**Keynumber:** 1972SCYT

**Coden:** CONF Teddington(Atomic Masses, Fund Constants),P123

**Keyword abstract:** NUCLEAR REACTIONS  $^{107, 109}\text{Ag}$ ,  $^{139}\text{La}$ ,  $^{150}\text{Sm}$ ,  $^{151, 152}\text{Eu}$ ,  $^{155, 157}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{168, 171, 174}\text{Yb}$ ,  $^{178}\text{Hf}$ ,  $^{181, 182}\text{Ta}$ ,  $^{197, 198}\text{Au}$ ,  $^{199}\text{Hg}$ ,  $^{232}\text{Th}(n,\gamma)$ ; measured  $E\gamma$ .  $^{108, 110}\text{Ag}$ ,  $^{140}\text{La}$ ,  $^{151}\text{Sm}$ ,  $^{152, 153}\text{Eu}$ ,  $^{156, 158}\text{Gd}$ ,  $^{160}\text{Tb}$ ,  $^{169, 172, 175}\text{Yb}$ ,  $^{179}\text{Hg}$ ,  $^{182, 183}\text{Ta}$ ,  $^{198, 199}\text{Au}$ ,  $^{200}\text{Hg}$ ,  $^{233}\text{Th}$  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  $^{152, 154}\text{Sm}$ ,  $^{153}\text{Eu}$ ,  $^{154, 158, 160}\text{Gd}$ ,  $^{166, 167, 168, 170}\text{Er}$ ,  $^{168, 170, 171, 172, 174, 176}\text{Yb}$ ,  $^{175}\text{Lu}$ ,  $^{182, 183, 184, 186}\text{W}(n,\gamma)$ ; calculated resonance integrals.

**Keynumber:** 1971HAXR

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

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

**Keynumber:** 1971BRYT

**Coden:** REPT RISO-M-1308,H Breitag,4/17/72

**Keyword abstract:** NUCLEAR REACTIONS  $^{197}\text{Au}$ ,  $^{174}\text{Yb}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ .  $^{175}\text{Yb}$ ,  $^{198}\text{Au}$  deduced levels,  $\gamma$ -branching, configurations.

**Keynumber:** 1971BRXU

**Coden:** REPT RISO-M-1308,9/9/71

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ ,  $^{197}\text{Au}(n,\gamma)$ ; measured  $E\gamma, I\gamma$ .  $^{175}\text{Yb}$ ,  $^{198}\text{Au}$  deduced levels,  $J, \pi, \gamma$ -branching.

**Keynumber:** 1971BR17

**Reference:** Z.Naturforsch. 26a, 371 (1971)

**Authors:** D.Breitig

**Title:** Das Kernniveauschema von  $\text{Yb}^{175}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ .  $^{175}\text{Yb}$  deduced levels,  $J, \pi, \gamma$ -branching.

**Keynumber:** 1971AL27

**Reference:** Phys.Scr. 4, 35 (1971)

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

**Title:** Energy Levels in  $^{175}\text{Yb}$  from Primary Transitions in the Thermal Neutron Capture Reaction

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma, Q$ .  $^{175}\text{Yb}$  deduced levels, J,  $\pi$ .

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**Keynumber:** 1970SI10

**Reference:** J.Inorg.Nucl.Chem. 32, 2839 (1970)

**Authors:** G.H.E.Sims, D.G.Juhnke

**Title:** The Thermal Neutron Capture Cross-Sections and Resonance Capture Integrals of  $^{44}\text{Ca}$ ,  $^{62}\text{Ni}$ ,  $^{168}\text{Yb}$ ,  $^{174}\text{Yb}$ ,  $^{169}\text{Tm}$ , and  $^{203}\text{Tl}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{44}\text{Ca}$ ,  $^{62}\text{Ni}$ ,  $^{168}$ ,  $^{174}\text{Yb}$ ,  $^{169}\text{Tm}$ ,  $^{203}\text{Tl}(n,\gamma)$ , E=thermal; measured  $\sigma$ ; deduced resonance integrals.

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**Keynumber:** 1970MUZS

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

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

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**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.

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**Keynumber:** 1969NA08

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

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

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

**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,  $\pi$ . Ge(Li) detector.

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**Keynumber:** 1967BO19

**Reference:** Nucl.Phys. A102, 577 (1967)

**Authors:** W.Bondarenko, N.Kramer, P.Prokofev, P.Manfrass, A.Andreeff, R.Kastner

**Title:** Untersuchung von  $^{175}\text{Yb}$  in der  $(n,\gamma)$  Reaktion

**Keyword abstract:** NUCLEAR REACTIONS  $^{174}\text{Yb}(n,\gamma)$ , E=thermal; measured  $E\gamma$ ,  $I\gamma$ ,  $I(\text{ce})$ ,  $\gamma\gamma$ -coin.  $^{175}\text{Yb}$  deduced levels, J,  $\pi$ . Enriched targets, Ge(Li) detector.

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**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.

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