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23 reference(s) found :

Keynumber: [2001BE33](#)

Reference: Phys.Rev. C64, 015801 (2001)

Authors: J.Best, H.Stoll, C.Arandini, S.Jaag, F.Kappeler, K.Wisshak, A.Mengoni, G.Reffo, T.Rauscher

Title: s-Process Branchings at ^{151}Sm , ^{154}Eu , and ^{163}Dy

Keyword abstract: NUCLEAR REACTIONS 151 , ^{153}Eu , 152 , ^{154}Sm , 164 , $^{170}\text{Er}(n,\gamma)$, E=spectrum; measured σ . 151 , 152 , 153 , 154 , $^{155}\text{Eu}(n,\gamma)$, E=1-2000 keV; calculated σ . Activation technique, comparisons with previous measurements. Astrophysical implications discussed.

Keynumber: 1997KAZR

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.2, p.1576 (1997)

Authors: F.Kappeler, K.Wisshak, F.Voss, G.Reffo

Title: Improved (n, γ) Cross Sections in the Rare Earth Region: Implications for s- and r-Process Nucleosynthesis

Keyword abstract: NUCLEAR REACTIONS ^{141}Pr , 142 , 143 , 144 , 145 , 146 , ^{148}Nd , 160 , 161 , 162 , 163 , ^{164}Dy , 164 , $^{170}\text{Er}(n,\gamma)$, E not given; measured Maxwellian averaged σ at kT=30 keV. Activation technique.

Keynumber: 1997KA43

Reference: Nucl.Phys. A621, 221c (1997)

Authors: F.Kappeler

Title: Laboratory Studies of Heavy Element Formation

Keyword abstract: NUCLEAR REACTIONS 154 , 156 , 158 , 160 , 162 , 164 , 166 , 168 , $^{170}\text{Er}(n,\gamma)$, E not given; compiled, reviewed $\sigma(E)$ data, analyses; deduced p-stable isotopes study usefulness to normalizing Hauser-Feshbach rates near stability valley. Other data, other aspects discussed.

Keynumber: 1979AG02

Reference: J.Phys.Soc.Jpn. 46, 1 (1979)

Authors: H.M.Agrawal, M.L.Seegal

Title: Statistical Theory Calculations of Neutron-Capture Cross-Sections at 24 keV

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc , ^{55}Mn , 63 , ^{65}Cu , 69 , ^{71}Ga , ^{75}As , 79 , ^{81}Br , ^{80}Se , 85 , ^{87}Rb , ^{89}Y , ^{93}Nb , ^{96}Zr , 98 , ^{100}Mo , 107 , ^{109}Ag , ^{108}Pd , ^{114}Cd , ^{115}In , ^{127}I , ^{133}Cs , ^{138}Ba , ^{139}La , 140 , ^{142}Ce , ^{141}Pr , 152 , ^{154}Sm , 158 , ^{160}Gd , ^{164}Dy , ^{165}Ho , ^{170}Er , ^{175}Lu , ^{180}Hf , ^{181}Ta , 184 , ^{186}W , 185 , ^{187}Re , ^{197}Au , ^{202}Hg , ^{208}Pb , ^{209}Bi , $^{232}\text{Th}(n,\gamma)$, E=24 keV; calculated σ ; deduced ratio of average $\Gamma\gamma$ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

Keynumber: 1978KO04

Reference: Yad.Fiz. 27, 10 (1978); Sov.J.Nucl.Phys. 27, 5 (1978)

Authors: V.N.Kononov, B.D.Yurlov, E.D.Poletaev, V.M.Timokhov

Title: Fast-Neutron Capture Cross Sections for Even-Even Isotopes of Neodymium, Samarium, Gadolinium, and Erbium

Keyword abstract: NUCLEAR REACTIONS 142 , 144 , 146 , 148 , ^{150}Nd , 144 , 148 , 150 , 152 , ^{154}Sm , 156 , 158 , ^{160}Gd , 166 , 168 , $^{170}\text{Er}(n,\gamma)$, E=5-350 keV; measured $\sigma(E)$.

Keynumber: 1977GRZX

Coden: JOUR BAPSA 22 615 HG11,Greenwood

Keyword abstract: NUCLEAR REACTIONS $^{164}, ^{166}, ^{168}, ^{170}\text{Er}(n,\gamma), E=2-24 \text{ keV}$; measured $\sigma(E, E\gamma)$. $^{165}, ^{167}, ^{169}, ^{171}\text{Er}$ deduced primary transitions.

Keynumber: 1975CHZT

Coden: REPT ERDA/NDC-2, p31, Chrien

Keyword abstract: NUCLEAR REACTIONS $^{162}, ^{164}\text{Dy}, ^{152}\text{Sm}, ^{156}\text{Gd}, ^{170}\text{Yb}, ^{158}, ^{160}\text{Gd}, ^{164}, ^{166}, ^{168}, ^{170}\text{Er}(n,\gamma), E=0.0253 \text{ eV}$; measured $\sigma(E\gamma)$. $^{163}, ^{165}\text{Dy}, ^{153}\text{Sm}, ^{151}\text{Gd}, ^{171}\text{Yb}$ resonances deduced J, π .

Keynumber: 1974VUZZ

Coden: CONF Amsterdam(Nucl Structure,Spectrosc),Vol1 P218

Keyword abstract: NUCLEAR REACTIONS $^{27}\text{Mg}, ^{170}\text{Er}(n,\gamma), E=14 \text{ MeV}$; measured σ . Other targets not specified.

Keynumber: 1974VU01

Reference: Lett.Nuovo Cim. 10, 1 (1974)

Authors: J.Vuletin, P.Kulisc, N.Cindro

Title: Activation Cross-Sections of (n,γ) Reactions at 14 MeV

Keyword abstract: NUCLEAR REACTIONS $^{50}\text{Ti}, ^{27}\text{Mg}, ^{37}\text{Cl}, ^{55}\text{Mn}, ^{75}\text{As}, ^{127}\text{I}, ^{138}\text{Ba}, ^{141}\text{Pr}, ^{170}\text{Er}(n,\gamma), E=14 \text{ MeV}$; measured σ .

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 σ ; 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}Sm

Keyword abstract: RADIOACTIVITY ^{151}Pm ; measured $\gamma\gamma(\theta), I\gamma$. ^{151}Sm levels deduced J, π, γ -mixing, λ .

Keynumber: 1974SH03

Reference: Yad.Fiz. 19, 5 (1974); Sov.J.Nucl.Phys. 19, 2 (1974)

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

Title: Neutron Radiative-Capture Cross Sections in the Energy Region 5-70 keV For Gd and Er Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{154}, ^{155}, ^{156}, ^{157}, ^{158}, ^{160}\text{Gd}(n,\gamma), ^{166}, ^{167}, ^{168}, ^{170}\text{Er}(n,\gamma), E=5-70 \text{ keV}$; measured $\sigma(E)$.

Keynumber: 1973LAYT

Reference: INDC(HUN)-11/L, p.26 (1973)

Authors: L.Lakosi, A.Veress

Title: Activation Experiments of Photo-Neutrons by using ^{24}Na -Be Source

Keyword abstract: NUCLEAR REACTIONS ^{55}Mn , 114 , ^{116}Cd , ^{115}In , ^{127}I , 152 , ^{154}Sm , 166 , ^{170}Er , ^{175}Lu , 191 , $^{193}\text{Ir}(n,\gamma)$, 107 , ^{109}Ag , ^{111}Cd , ^{115}In , ^{167}Er , $^{176}\text{Lu}(n,n'\gamma)$; measured σ .

Keynumber: 1972VA29

Reference: Nucl.Instrum.Methods 103, 549 (1972)

Authors: M.Valkonen, J.Kantele

Title: The Role of Target Geometry in 14 MeV Neutron Capture Cross-Section Measurements

Keyword abstract: NUCLEAR REACTIONS ^{81}Br , ^{103}Rh , ^{127}I , $^{170}\text{Er}(n,\gamma)$, $E=14.5$ MeV; measured σ ; analyzed target geometry effects.

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 , $^{186}\text{W}(n,\gamma)$; calculated resonance integrals.

Keynumber: 1972MUZO

Reference: Priv.Comm. (1972)

Authors: S.F.Mughabghab

Keyword abstract: NUCLEAR REACTIONS $^{170}\text{Er}(n,\gamma)$, $E=\text{thermal}$; measured $\sigma(E\gamma)$. ^{170}Er deduced resonances, level-width.

Keynumber: 1972MOYY

Coden: REPT ZFK-243,P93

Keyword abstract: NUCLEAR REACTIONS ^{164}Dy , 166 , 168 , ^{170}Er , 168 , ^{170}Yb , 178 , ^{180}Hf , 182 , ^{184}W (n,γ); compiled n-resonance data, (n,γ) decay modes.

Keynumber: 1972MOYX

Coden: REPT ZFK-243,P65

Keyword abstract: NUCLEAR REACTIONS $^{170}\text{Er}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma$. ^{171}Er deduced transitions.

Keynumber: 1972KA21

Reference: Phys.Lett. 39B, 625 (1972)

Authors: J.Kantele, M.Valkonen

Title: Mass Number Dependence of Activation Capture Cross Sections for 14 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{51}V , ^{81}Br , ^{103}Rh , ^{127}I , ^{154}Sm , ^{160}Gd , ^{165}Ho , ^{170}Er (n,γ), $E=14.5$ MeV; measured activation σ .

Keynumber: 1971MI14

Reference: J.Phys.Soc.Jap. 31, 1304 (1971)

Authors: K.Miyano

Title: The Slow Neutron Capture Cross Sections for the Long-Lived Activities, ^{171}Er and ^{171}Tm

Keyword abstract: NUCLEAR REACTIONS ^{170}Er , $^{170}\text{Tm}(n,\gamma)$, $E=\text{slow}$; measured σ . ^{171}Er ^{171}Tm measured isomer production.

Keynumber: 1971MEZN

Coden: JOUR BAPSA 16 1181,M L Mehta,10/29/71

Keyword abstract: NUCLEAR REACTIONS $^{166, 168, 170}\text{Er}$, $^{182, 184, 186}\text{W}$, ^{238}U , $^{232}\text{Th}(n,\gamma)$, analyzed available data; deduced widths,level spacings.

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: 1971AL01

Reference: Nucl.Phys. A161, 209 (1971)

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

Title: Low Spin, Negative Parity States in the $N = 103$ Isotones of ^{171}Er , ^{173}Yb and ^{175}Hf Identified by Thermal Neutron Capture Reactions

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

Keynumber: 1968KA17

Reference: Yadern.Fiz. 7, 225 (1968); Soviet J.Nucl.Phys. 7, 161 (1968)

Authors: E.N.Karzhavina, A.B.Popov, Y.S.Yazvitskii

Title: Neutron Resonances of Erbium Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{164, 166, 167, 168, 170}\text{Er}(n,\gamma)$, $E=15-4730$ eV; measured $I\gamma, \sigma$. $^{165, 167, 168, 169, 171}\text{Er}$ deduced resonances, level-width, strength functions. Natural, enriched targets.