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**18 reference(s) found :**

**Keynumber:** 2000SHZR

**Reference:** INDC(CPR)-052/L, p.43 (2000)

**Authors:** Q.Shen

**Title:** Calculations of  $n + {}^{144,147-152,154}\text{Sm}$  Reactions in the Energy Region up to 20 MeV

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{144, 147, 148, 149, 150, 151, 152, 154}\text{Sm}(n,X)$ ,  $(n,n)$ ,  $(n,xn)$ ,  $(n,\gamma)$ ,  $E < 20$  MeV; calculated  $\sigma$ . Comparisons with data.

**Keynumber:** [1993MA28](#)

**Reference:** Phys.Rev. C48, 1120 (1993)

**Authors:** R.L.Macklin, N.W.Hill, J.A.Harvey, G.L.Tweed

**Title:** Neutron Capture and Total Cross Sections of  ${}^{144}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{144}\text{Sm}(n,n)$ ,  $(n,\gamma)$ ,  $E=0.5$  eV to 500 keV; measured  $\sigma(E)$ ; deduced Maxwellian average capture, capture resonance integral.  ${}^{145}\text{Sm}$  deduced s-,p-wave resonances, parameters  $g\Gamma(n)$ ,  $\Gamma\gamma$ ,  $L$ ,  $J$ , average properties.

**Keynumber:** 1987AL01

**Reference:** Nucl.Sci.Eng. 95, 194 (1987)

**Authors:** C.W.Alexander, J.Halperin, J.B.Knauer, R.L.Walker

**Title:** The Thermal Neutron Capture Cross Sections and Resonance Integrals of  ${}^{144}\text{Sm}$  and  ${}^{145}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{144, 145}\text{Sm}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured capture  $\sigma$ , resonance integrals. Mass spectrographic assays.

**Keynumber:** 1986MAZO

**Reference:** Bull.Am.Phys.Soc. 31, No.8, 1238, ED8 (1986)

**Authors:** R.L.Macklin, J.A.Harvey, N.W.Hill, G.L.Tweed

**Title:** Neutron Capture and Total Cross Sections of  $\text{Sm-144} + n$

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{144}\text{Sm}(n,n)$ ,  $(n,\gamma)$ ,  $E=0.5$  eV-500 keV; measured  $\sigma(E)$ .  ${}^{145}\text{Sm}$  deduced resonances,  $L$ ,  $\Gamma n$ , s-wave strength function.

**Keynumber:** 1984ABZX

**Reference:** Proc.Conf.Neutron Physics, Kiev, Vol.2, p.105 (1984)

**Authors:** L.P.Abagyan, S.M.Zakharova

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{147, 148, 148m, 149, 151}\text{Pm}$ ,  ${}^{144, 148, 150, 152, 154, 156}\text{Sm}$   $(n,\gamma)$ ,  $E=\text{thermal-30 keV}$ ; analyzed, evaluated  $\sigma$ , capture resonance integral.  ${}^{148, 149, 150, 152}\text{Pm}$ ,  ${}^{145, 149, 151, 153, 155, 157}\text{Sm}$  evaluated average resonance parameters.

**Keynumber:** 1981MAYX

**Reference:** Program and Theses, Proc.31st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Samarkand, p.476 (1981)

**Authors:** B.A.Martsynkevich

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{142}\text{Nd}$ ,  ${}^{144}\text{Sm}(n,\gamma)$ ,  $E=\text{thermal}$ ; calculated  $\sigma(E\gamma)$ .

**Keynumber:** 1979WA22

**Reference:** J.Phys.(London) G5, 1723 (1979)

**Authors:** D.D.Warner, W.F.Davidson, W.Gelletly

**Title:** Correlations between (n, $\gamma$ ) and (d,p) Reactions on  $^{144}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{144}\text{Sm}(n,\gamma), E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ .  $^{145}\text{Sm}$  deduced  $S(n)$ .  $^{145}\text{Sm}$  levels deduced strength correlation with d stripping reaction.

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**Keynumber:** 1979MU02

**Reference:** Phys.Lett. 81B, 93 (1979)

**Authors:** S.F.Mughabghab

**Title:** Verifications of the Lane-Lynn Theory of Direct Neutron Capture

**Keyword abstract:** NUCLEAR REACTIONS  $^{136}\text{Xe}, ^{144}\text{Sm}(n,\gamma), E=\text{thermal}$ ; calculated capture  $\sigma$ , coherent scattering lengths, neutron S. Lane-Lynn theory of direct capture.  $^{137}\text{Xe}, ^{145}\text{Sm}$  levels deduced J.

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**Keynumber:** 1978WAZP

**Coden:** CONF Brookhaven(Neutron Capt  $\gamma$ -Ray Spectr), Proc, P791, Warner

**Keyword abstract:** NUCLEAR REACTIONS  $^{144}\text{Sm}(n,\gamma), E=\text{slow}$ ; measured  $E\gamma, I\gamma$ .  $^{145}\text{Sm}$  deduced levels, E1 transition strength,  $S(n)$ .

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**Keynumber:** 1978WAZM

**Reference:** Contrib.Int.Symp.Neutron Capture Gamma-Ray Spectrosc.and Related Topics, 3rd, Upton, N.Y., No.84 (1978)

**Authors:** D.D.Warner, W.F.Davidson, W.Gelletly

**Title:** Correlations between (n, $\gamma$ ) and (d,p) Strengths on  $^{144}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{144}\text{Sm}(n,\gamma), E=\text{th}$ ; measured  $E\gamma, I\gamma$ ; deduced Q.  $^{145}\text{Sm}$  deduced neutron binding energy.  $^{145}\text{Sm}$  levels deduced correlation between primary transition strength, (d,p) transition strength for  $L(n)=1$ .

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

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**Keynumber:** 1976SMZP

**Reference:** ANL-76-96, p.126 (1976)

**Authors:** R.K.Smith, D.L.Bushnell, G.D.Loper

**Title:** Nuclear Structure of the Odd-N Sm Isotopes  $^{145}\text{Sm}, ^{149}\text{Sm}, ^{151}\text{Sm}, ^{153}\text{Sm}$ , and  $^{155}\text{Sm}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{144}, ^{148}, ^{150}, ^{152}, ^{154}\text{Sm}(n,\gamma), E=\text{th, res}$ ; measured  $\gamma$ -spectra.  $^{145}, ^{149}, ^{151}, ^{153}, ^{155}\text{Sm}$  deduced levels.

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**Keynumber:** 1975SMZL

**Coden:** CONF Petten(Neutron Capture  $\gamma$ -ray Spect), Proc P358

**Keyword abstract:** NUCLEAR REACTIONS  $^{144}, ^{146}, ^{148}, ^{150}, ^{152}, ^{154}\text{Sm}(n,\gamma)$ ; measured  $\gamma$ -spectra.

145, 147, 149, 151, 153, <sup>155</sup>Sm deduced levels, J,  $\pi$ .

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**Keynumber:** 1974SMZN

**Reference:** Contrib.Int.Symp.Neutron Capture Gamma Ray Spectroscopy and Related Topics, 2nd, Petten, p.133 (1974)

**Authors:** R.K.Smith

**Title:** Energy Levels in the Odd-N Sm Isotopes

**Keyword abstract:** NUCLEAR REACTIONS <sup>144</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm(n, $\gamma$ ), E=thermal; measured E $\gamma$ , I $\gamma$ . <sup>145</sup>, <sup>149</sup>, <sup>151</sup>, <sup>153</sup>, <sup>155</sup>Sm deduced levels, J,  $\pi$ .

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**Keynumber:** 1974SMZC

**Reference:** CONF-740920-8 (1974)

**Authors:** R.K.Smith

**Title:** Energy Levels in the Odd-N Sm Isotopes

**Keyword abstract:** NUCLEAR REACTIONS <sup>144</sup>, <sup>146</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm(n, $\gamma$ ); measured E $\gamma$ , I $\gamma$ . <sup>145</sup>, <sup>147</sup>, <sup>149</sup>, <sup>151</sup>, <sup>153</sup>, <sup>155</sup>Sm deduced resonances, J,  $\pi$ .

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**Keynumber:** 1973SMZJ

**Coden:** REPT ANL-8035 P13

**Keyword abstract:** NUCLEAR REACTIONS <sup>144</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm(n, $\gamma$ ); measured  $\sigma$ (E $\gamma$ ). <sup>145</sup>, <sup>149</sup>, <sup>151</sup>, <sup>153</sup>, <sup>155</sup>Sm deduced levels.

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**Keynumber:** 1971SMZO

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

**Keyword abstract:** NUCLEAR REACTIONS <sup>144</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm(n, $\gamma$ ), E=thermal, resonance; measured E $\gamma$ , I $\gamma$ ; deduced Q. <sup>145</sup>, <sup>149</sup>, <sup>151</sup>, <sup>153</sup>, <sup>155</sup>Sm deduced levels, J,  $\pi$ .

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**Keynumber:** 1970SMZZ

**Reference:** Bull.Amer.Phys.Soc. 15, No.4, 549, EG5 (1970)

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

**Title:** Energy Levels in the Odd-A Sm Isotopes

**Keyword abstract:** NUCLEAR REACTIONS <sup>144</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm(n, $\gamma$ ), E = thermal; measured E $\gamma$ , I $\gamma$ ; deduced Q. <sup>145</sup>, <sup>149</sup>, <sup>151</sup>, <sup>153</sup>, <sup>155</sup>Sm deduced levels, J,  $\pi$ . Ge(Li) detector, bent-crystal spectrometer.