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**36 reference(s) found :**

**Keynumber:** [1995WI25](#)

**Reference:** Phys.Rev. C52, 2762 (1995)

**Authors:** K.Wisshak, F.Voss, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, M.Uhl, G.Reffo

**Title:** Stellar Neutron Capture Cross Sections of the Gd Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}$ ,  $^{155}$ ,  $^{156}$ ,  $^{157}$ ,  $^{158}$ Gd(n, $\gamma$ ),E=3-225 KeV; measured  $\sigma(E)$ ; deduced Maxwellian averaged cross section for kT=10 to 100 keV.

**Keynumber:** 1988BE32

**Reference:** Astrophys.J. 331, 1047 (1988)

**Authors:** H.Beer, R.L.Macklin

**Title:** The  $^{151}$ Sm Branching; A probe for the irradiation time scale of the s-process

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}$ ,  $^{155}$ ,  $^{157}$ Gd(n, $\gamma$ ),E=3-500 keV; measured  $\sigma(E)$ ; deduced  $\sigma$ ,Maxwellian averaged <s>s-process time scale.

**Keynumber:** 1987MA13

**Reference:** Nucl.Sci.Eng. 95, 304 (1987)

**Authors:** R.L.Macklin

**Title:** Neutron Capture Resonances of  $^{152}$ Gd and  $^{154}$ Gd

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}$ Gd(n, $\gamma$ ),E  $\leq$  2.76 keV; measured capture  $\sigma(E)$ .  $^{153}$ ,  $^{155}$ Gd deduced resonances, $\Gamma$ , $\Gamma_n$ , $\Gamma\gamma$ ,average spacing,capture integral. Enriched targets,tof.

**Keynumber:** 1986SC25

**Reference:** J.Phys.(London) G12, 411 (1986)

**Authors:** H.H.Schmidt, W.Stoffl, T.von Egidy, P.Hungerford, H.J.Scheerer, K.Schreckenbach, H.G.Borner, D.D.Warner, R.E.Chrien, R.C.Greenwood, C.W.Reich

**Title:** The Level Structure of  $^{155}$ Gd from (n, $\gamma$ ), (d,p) and (d,t) Studies

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ Gd(n, $\gamma$ ),E  $\leq$  24 keV;  $^{154}$ Gd(d,p),  $^{156}$ Gd(d,t),E=14,20 MeV; measured  $E\gamma$ , $I\gamma$ ,I(ce), $\sigma$ (Ep), $\sigma$ (Et).  $^{155}$ Gd levels deduced J, $\pi$ , $\gamma$ -branching,ICC, $\gamma$ -multipolarity,neutron binding energy,rotational band structure,configuration.

**Keynumber:** 1986BEZD

**Reference:** Program and Theses, Proc.36th,Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.306 (1986)

**Authors:** F.Bechvarzh, M.E.Montero-Cabrera, S.A.Telzhnikov, Huynh Thuong Hiep

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  $^{147}$ ,  $^{149}$ Sm,  $^{152}$ ,  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ),E=resonance; measured  $\gamma$ -spectra.  $^{148}$ ,  $^{150}$ Sm,  $^{153}$ ,  $^{155}$ ,  $^{157}$ Gd deduced radiative strength function.

**Keynumber:** 1986BE24

**Reference:** Yad.Fiz. 44, 3 (1986)

**Authors:** F.Becvar, M.E.Montero-Cabrera, S.Pospisil, S.A.Telzhnikov

**Title:** Determination of Absolute Intensities of  $\gamma$  Transitions in Neutron Resonances

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ), (n,X),E  $\approx$  resonance; measured  $E\gamma$ , $I\gamma$ ,transmission.  $^{155}$ ,  $^{157}$ Gd deduced resonances,transition absolute  $I\gamma$ .

**Keynumber:** 1985VOZV

**Reference:** Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics, Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.305 (1985)

**Authors:** T.von Egidy, P.Hungerford, H.H.Schmidt, H.J.Scheerer, A.N.Behkami, G.Hlawatsch, B.Krusche, K.P.Lieb, H.G.Borner, S.A.Kerr, K.Schreckenbach

**Title:** Structural and Statistical Aspects of Extensive Level Schemes from  $(n,\gamma)$  and Transfer Reactions

**Keyword abstract:** NUCLEAR REACTIONS  $^{19}\text{F}$ ,  $^{23}\text{Na}$ ,  $^{27}\text{Al}$ ,  $^{35}\text{Cl}$ ,  $^{39,40}$ ,  $^{41}\text{K}$ ,  $^{113}\text{Cd}$ ,  $^{133}\text{Cs}$ ,  $^{154}\text{Sm}$ ,  $^{153}\text{Eu}$ ,  $^{154}\text{Gd}$ ,  $^{160}$ ,  $^{162}\text{Dy}(n,\gamma)$ ,  $(n,e)$ , E not given; measured not given.  $^{20}\text{F}$ ,  $^{24}\text{Na}$ ,  $^{28}\text{Al}$ ,  $^{36}\text{Cl}$ ,  $^{40,41}$ ,  $^{42}\text{K}$ ,  $^{114}\text{Cd}$ ,  $^{134}\text{Cs}$ ,  $^{155}\text{Sm}$ ,  $^{154}\text{Eu}$ ,  $^{155}\text{Gd}$ ,  $^{161}$ ,  $^{163}\text{Dy}$  deduced levels,  $\gamma$ -transition multipolarity, strength distribution.

**Keynumber:** 1985SCZS

**Reference:** Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics,Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.406 (1985)

**Authors:** H.H.Schmidt, P.Hungerford, T.v.Egidy, H.J.Scheerer, H.G.Borner, S.A.Kerr, K.Schreckenbach, F.Hoyer, G.Colvin, R.F.Casten, D.D.Warner, W.Kane

**Title:** Single Particle and Vibrational Bands in  $^{155}\text{Gd}$ ,  $^{161}\text{Dy}$ , and  $^{163}\text{Dy}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}$ ,  $^{160}$ ,  $^{162}\text{Dy}(n,\gamma)$ ,  $(n,e)$ , E=thermal,2,24 keV; measured  $E\gamma, I\gamma$ , electron spectra.  $^{154}\text{Gd}$ ,  $^{160}$ ,  $^{162}\text{Dy}(d,p)$ ,  $^{155}\text{Gd}$ ,  $^{162}$ ,  $^{164}\text{Dy}(d,t)$ , E=14,20 MeV; measured  $\sigma(Ep), \sigma(Et)$ .  $^{155}\text{Gd}$ ,  $^{161}$ ,  $^{163}\text{Dy}$  deduced levels,J, $\pi$ ,rotational bands,band structure,configuration.

**Keynumber:** 1984NEZR

**Reference:** Proc.Conf.Neutron Physics, Kiev, Vol.3, p.143 (1984)

**Authors:** K.Nedvedyuk, Yu.P.Popov

**Title:** Determination of the Average Radiative Neutron Capture from Systematics

**Keyword abstract:** NUCLEAR REACTIONS  $^{74}$ ,  $^{82}\text{Se}$ ,  $^{82}\text{Kr}$ ,  $^{84}\text{Sr}$ ,  $^{102}$ ,  $^{109}$ ,  $^{112}\text{Pd}$ ,  $^{104}$ ,  $^{109}$ ,  $^{115}$ ,  $^{117}$ ,  $^{118}\text{Cd}$ ,  $^{110}$ ,  $^{113}$ ,  $^{114}$ ,  $^{115}$ ,  $^{121}\text{Sn}$ ,  $^{120}$ ,  $^{127}$ ,  $^{129}$ ,  $^{131}$ ,  $^{132}\text{Te}$ ,  $^{131}$ ,  $^{132}$ ,  $^{133}\text{Ba}$ ,  $^{145}$ ,  $^{146}$ ,  $^{151}$ ,  $^{156}\text{Sm}$ ,  $^{152}$ ,  $^{154}$ ,  $^{159}\text{Gd}$ ,  $^{156}$ ,  $^{158}$ ,  $^{160}$ ,  $^{165}\text{Dy}$ ,  $^{166}$ ,  $^{168}$ ,  $^{169}$ ,  $^{175}\text{Yb}$ ,  $^{190}\text{Os}(n,\gamma)$ , E=30 keV; analyzed average radiative  $\sigma$  dependence on neutron number,neutron binding energy; deduced  $\sigma$ .

**Keynumber:** 1984BEZC

**Reference:** Proc.Conf.Neutron Physics, Kiev, Vol.3, p.8 (1984)

**Authors:** F.Bechvarzh, Ya.Gonzatko, M.Kralik, M.-E.Montero-Cabrera, Huynh Thuong Hiep, S.A.Telzhnikov

**Title:**

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=10-24 eV; measured  $E\gamma, I\gamma$ .  $^{155}\text{Gd}$  deduced radiation strength function. Enriched target,tof.

**Keynumber:** 1981BE57

**Reference:** Yad.Fiz. 34, 1158 (1981)

**Authors:** F.Becvar, J.Honzatko, M.Kralik, Nguyen Dang Nhuan, S.A.Telzhnikov

**Title:** Investigation of the Reaction  $^{154}\text{Gd}(n,\gamma)^{155}\text{Gd}$  at Isolated Resonances

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma$ .  $^{155}\text{Gd}$  deduced levels,J, $\pi$ ,neutron reduced width, $\Gamma\gamma$  correlation. Quasiparticle-phonon model.

**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  $^{154}\text{Gd}$ ,  $^{171}\text{Yb}$ ,  $^{167}\text{Er}$ ,  $^{185}\text{Re}$ (n, $\gamma$ ),E=resonance; measured  $\sigma(E\gamma)$ .  $^{168}\text{Er}$ ,  $^{155}\text{Gd}$ ,  $^{172}\text{Yb}$ ,  $^{186}\text{Re}$  resonances deduced  $\Gamma\gamma, \Gamma n$  correlation. Quasiparticle phonon model.

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**Keynumber:** 1980BEZF

**Reference:** JINR-P3-80-864 (1980)

**Authors:** F.Becvar, Ya.Gonzatko, M.Kralik, Nguyen Dang Nyuan, S.A.Telezhnikov

**Title:** Study of the  $^{154}\text{Gd}(n,\gamma)^{155}\text{Gd}$  Reaction at Isolated Resonances

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=11.58,22.33,65.06 eV; measured  $E\gamma, I\gamma$ .  $^{155}\text{Gd}$  deduced levels,J, $\pi, \Gamma n, \Gamma\gamma$  correlation. Soloviev quasiparticle-phonon model.

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**Keynumber:** 1980BEYD

**Coden:** CONF Kiev(Neutron Physics) Proc,Part2,P214,Bechvarzh

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}$ ,  $^{156}\text{Gd}$ (n, $\gamma$ ), E < 600 eV; measured  $I\gamma$  vs E.  $^{155}, ^{157}\text{Gd}$  deduced resonances.

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**Keynumber:** 1980BEYC

**Coden:** CONF Kiev(Neutron Physics) Proc,Part2,P219,Bechvarzh

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=resonance; measured primary  $E\gamma, I\gamma$ .  $^{155}\text{Gd}$  deduced levels,J, $\pi$ . Enriched target,Ge(Li) detectors. Quasiparticle-phonon model.

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**Keynumber:** 1979STZK

**Reference:** JUL-Spez-36, p.52 (1979)

**Authors:** W.Stoffl, T.von Egidy, K.Schreckenbach, D.D.Warner, H.G.Borner

**Title:** (n, $\gamma$ ) Study Levels in  $^{155}\text{Gd}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma, I(\text{ce})$ .  $^{155}\text{Gd}$  deduced levels,multipolarity,Nilsson assignments.

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**Keynumber:** 1978STZT

**Coden:** CONF Brookhaven(Neutron Capt  $\gamma$ -Ray Spectr),Proc,P769,Stoffl

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma, I(\text{ce})$ ; deduced Q.  $^{155}\text{Gd}$  deduced levels,J, $\pi$ ,Nilsson assignment.

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**Keynumber:** 1978STZR

**Coden:** CONF BNL(Neutron Capt  $\gamma$ -Ray Spectr),Contrib,No94,Stoffl

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma, I(\text{ce})$ ; deduced Q.  $^{155}\text{Gd}$  deduced levels,J, $\pi$ ,branching ratio.

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**Keynumber:** 1978SPZY

**Coden:** CONF Brookhaven(Neutron Capt  $\gamma$ -Ray Spectr),Proc,P763,Spits

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}, ^{153}, ^{154}\text{Gd}(n,\gamma)$ , E=thermal; measured  $E\gamma, I\gamma$ .  $^{153}\text{Gd}$  deduced levels, $\gamma$ -branching.  $^{154}, ^{155}\text{Gd}$  deduced levels. Dumond-type gamma diffraction spectrometer.

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**Keynumber:** 1978SPZX

**Coden:** CONF BNL(Neutron Capt  $\gamma$ -Ray Spectr),Contrib,No77,Spits

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{153}$ ,  $^{154}$ Gd(n, $\gamma$ ),E=th; measured E $\gamma$ ,I $\gamma$ .  $^{153}$ ,  $^{154}$ ,  $^{155}$ Gd deduced levels, $\gamma$ -branching.

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**Keynumber:** 1977GRZL

**Reference:** Bull.Amer.Phys.Soc. 22, No.8, 1032, ED9 (1977)

**Authors:** R.C.Greenwood, R.E.Chrien

**Title:** Distribution of Low-Spin States in Odd-Gd Isotopes Observed from 2- and 24-keV Neutron Capture Reactions

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ ,  $^{158}$ ,  $^{160}$ Gd(n, $\gamma$ ),E=2,24 keV; measured  $\gamma$ -spectra.  $^{155}$ ,  $^{157}$ ,  $^{159}$ ,  $^{161}$ Gd deduced level distribution.

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**Keynumber:** 1975GRZX

**Coden:** REPT ERDA/NDC-2, p35, Greenwood

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ),E=24 keV; measured  $\sigma(E\gamma)$ .  $^{155}$ ,  $^{157}$ Gd deduced resonances,J, $\pi$ .

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**Keynumber:** 1975GRZB

**Reference:** Proc. of Second Int.Symp. on Neutron Capture Gamma Ray Spectroscopy and Related Topics, Petten, 1974, p.353 (1975)

**Authors:** R.C.Greenwood, C.W.Reich, R.E.Chrien, K.Rimawi

**Title:** Energy Levels of  $^{155}$ Gd and  $^{157}$ Gd Populated by the (n, $\gamma$ ) Reaction using 24.5 keV Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ),E=24 keV; measured  $\sigma(E\gamma)$ .  $^{155}$ ,  $^{157}$ Gd deduced levels,J, $\pi$ .

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

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**Keynumber:** 1974RIZB

**Coden:** REPT USNDC-11 P47

**Keyword abstract:** NUCLEAR REACTIONS Ta,Mo,Nb,  $^{140}$ ,  $^{142}$ Ce,  $^{154}$ ,  $^{155}$ ,  $^{156}$ ,  $^{157}$ Gd,Ho(n, $\gamma$ ),E=24 keV; measured  $\sigma$ .  $^{93}$ ,  $^{95}$ ,  $^{97}$ ,  $^{99}$ Mo deduced resonances,J, $\pi$ .

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**Keynumber:** 1974RA23

**Reference:** Phys.Rev. C10, 1904 (1974)

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

**Title:** Neutron Resonance Spectroscopy:  $^{154}$ ,  $^{158}$ ,  $^{160}$ Gd

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{158}$ ,  $^{160}$ Gd(n,n), (n, $\gamma$ ),E=0-10 keV; measured  $\sigma(E)$ .  $^{155}$ ,  $^{159}$ ,  $^{161}$ Gd resonances deduced g n-width, $\gamma$ -width.

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**Keynumber:** 1974GRZE

**Coden:** CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P119

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ),E=24.5 keV; measured E $\gamma$ ,I $\gamma$ .  $^{155}$ ,  $^{157}$ Gd deduced resonances.

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**Keynumber:** 1974GRZD

**Coden:** REPT USNDC-11 P4

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ), E=24.5 keV; measured E $\gamma$ , I $\gamma$ .  $^{155}$ ,  $^{157}$ Gd deduced resonances.

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**Keynumber:** 1974GRYR

**Coden:** JOUR BAPSA 19 1031 EE9

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ ,  $^{156}$ Gd(n, $\gamma$ ), E=24 keV; measured E $\gamma$ , I $\gamma$ .  $^{155}$ ,  $^{157}$ Gd deduced levels, J,  $\pi$ .

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**Keynumber:** 1974CHZG

**Reference:** USNDC-11, p.46 (1974)

**Authors:** R.E.Chrien, K.Rimawi, R.C.Greenwood, G.W.Cole

**Title:** Nuclear Structure Studies Using the Fast Chopper

**Keyword abstract:** NUCLEAR REACTIONS  $^{94}$ ,  $^{96}$ ,  $^{97}$ Mo,  $^{154}$ ,  $^{156}$ ,  $^{157}$ Gd(n, $\gamma$ ); measured E $\gamma$ , I $\gamma$ .

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**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, $\gamma$ ); calculated resonance integrals.

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**Keynumber:** 1971KIZC

**Reference:** Thesis, Cornell Univ. (1971); Diss.Abstr.Int. 31B, 7511 (1971)

**Authors:** M.B.Kime

**Title:** K Forbidden Isomerism of the 11/2<sup>-</sup>[505] Nilsson Orbital in the Odd A, N=91 Isotones

**Keyword abstract:** RADIOACTIVITY  $^{153m}$ Sm,  $^{155m}$ Gd,  $^{157m}$ Dy; measured T<sub>1/2</sub>, E(X-ray), I(X-ray), E $\gamma$ , I $\gamma$ .  $^{153}$ Sm,  $^{155}$ Gd,  $^{157}$ Dy deduced levels,  $\gamma$ -branching.

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}$ Gd(n, $\gamma$ ), E=thermal; measured isomeric  $\sigma$  ratio.

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**Keynumber:** 1971HAXR

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

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}$ Sm,  $^{151}$ ,  $^{153}$ 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, $\gamma$ ), measured capture resonance integrals.

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

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**Keynumber:** 1970BO29

**Reference:** Phys.Rev. C2, 1951 (1970)

**Authors:** L.M.Bollinger, G.E.Thomas

**Title:** Average-Resonance Method of Neutron-Capture  $\gamma$ -Ray Spectroscopy: States of  $^{106}\text{Pd}$ ,  $^{156}\text{Gd}$ ,  $^{158}\text{Gd}$ ,  $^{166}\text{Ho}$ , and  $^{168}\text{Er}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{102}$ ,  $^{104}$ ,  $^{105}\text{Pd}$ ,  $^{154}$ ,  $^{155}$ ,  $^{156}$ ,  $^{157}\text{Gd}$ ,  $^{164}$ ,  $^{166}$ ,  $^{167}$ ,  $^{168}\text{Er}$ ,  $^{165}\text{Ho}(\text{n},\gamma)$ , E=thermal,epithermal; measured  $E\gamma, I\gamma$ ; deduced Q.  $^{103}$ ,  $^{105}\text{Pd}$ ,  $^{155}$ ,  $^{157}\text{Gd}$ ,  $^{165}$ ,  $^{167}$ ,  $^{169}\text{Er}$  deduced levels.  $^{106}\text{Pd}$ ,  $^{156}$ ,  $^{158}\text{Gd}$ ,  $^{166}\text{Ho}$ ,  $^{168}\text{Er}$  deduced levels,J, $\pi$ .

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**Keynumber:** 1968ETZZ

**Reference:** Thesis, Cornell Univ. (1968); NYO-3664-10 (1968)

**Authors:** M.Etzion

**Title:** A Fast Storage System for Pulse-Height Data and Experiments on 31-Millisecond  $^{155m}\text{Gd}$

**Keyword abstract:** RADIOACTIVITY  $^{161}\text{Gd}$ ; measured  $E\gamma$ .  $^{155m}\text{Gd}$ ; measured  $T_{1/2}$ . Deduced ICC.

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Gd}(\text{n},\gamma)$ , E=reactor spectrum; measured production  $\sigma$  for  $^{155m}\text{Gd}$ ,  $E\gamma, I\gamma$ .  $^{155}\text{Gd}$  deduced levels,J, $\pi$ ,  $T_{1/2}$ .

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