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## 27 reference(s) found:

**Keynumber:** 1999ZHZM

**Reference:** INDC(CPR)-049/L, p.76 (1999)

**Authors:** C.Zhou

**Title:** Prompt  $\gamma$ -Ray Data Evaluation of Thermal-Neutron Capture for A = 1  $\vartheta$  25

**Keyword abstract:** NUCLEAR REACTIONS <sup>1</sup>, <sup>2</sup>H, <sup>6</sup>, <sup>7</sup>Li, <sup>9</sup>Be, <sup>12</sup>, <sup>13</sup>C, <sup>14</sup>N, <sup>16</sup>, <sup>17</sup>O, <sup>19</sup>F, <sup>20</sup>, <sup>21</sup>,

<sup>22</sup>Ne, <sup>23</sup>Na, <sup>24</sup>, <sup>25</sup>Mg(n, $\gamma$ ),E=thermal; compiled, evaluated prompt  $\gamma$ -ray data.

\_\_\_\_\_

Keynumber: 1997RO26

**Reference:** IEEE Trans.Instrum.Meas. 46, 560 (1997)

Authors: S.Rottger, A.Paul, U.Keyser

**Title:** Prompt  $(n,\gamma)$ -Spectrometry for the Isotopic Analysis of Silicon Crystals for the Avogadro Project **Keyword abstract:** NUCLEAR REACTIONS  $^1$ H,  $^{14}$ N,  $^{28}$ ,  $^{29}$ Si,  $^{56}$ Fe,  $^{27}$ Al,  $^{63}$ Cu $(n,\gamma)$ ,E=thermal:

measured Eγ,Iγ.

**Keyword abstract:** ATOMIC MASSES <sup>1</sup>, <sup>2</sup>H, <sup>14</sup>, <sup>15</sup>N, <sup>28</sup>, <sup>29</sup>, <sup>30</sup>, <sup>31</sup>, <sup>32</sup>Si, <sup>56</sup>, <sup>57</sup>Fe; measured neutron-

induced \gamma spectra; deduced mass differences.

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Keynumber: 1997JU02

**Reference:** Phys.Rev. C56, 118 (1997)

Authors: E.T.Jurney, J.W.Starner, J.E.Lynn, S.Raman

**Title:** Thermal-Neutron Capture by <sup>14</sup>N

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}N(n,\gamma)$ , E=thermal; measured E $\gamma$ , I $\gamma$ ; deduced capture  $\sigma$ 

(E). <sup>15</sup>N deduced resonances, width parameters. Other data input.

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**Kevnumber:** 1993SE13

**Reference:** Nucl.Instrum.Methods Phys.Res. A336, 171 (1993)

**Authors:** R.Semmler, L.P.Geraldo

**Title:** A New Experimental Apparatus for Production and Utilization of Capture Gamma Rays

**Keyword abstract:** NUCLEAR REACTIONS <sup>60</sup>, <sup>58</sup>, <sup>62</sup>Ni, <sup>14</sup>N(n,γ),E=reactor; measured capture γ-ray

flux density; deduced device low energy fission usage suitability.

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**Keynumber:** 1992JUZZ

**Reference:** Bull.Am.Phys.Soc. 37, No.2, 902, C8 3 (1992) **Authors:** E.T.Jurney, J.W.Starner, J.E.Lynn, S.Raman

**Title:** Check of the Smith and Wapstra Mass Doublet Measurements

**Keyword abstract:** NUCLEAR REACTIONS <sup>12</sup>, <sup>13</sup>C, <sup>14</sup>N(n,γ),E=reactor; measured not given. <sup>13</sup>, <sup>14</sup>C,

<sup>15</sup>N deduced neutron separation energies. Capture γ-spectroscopy. Comparison with Wapstra

predictions.

T7 1 100011

**Keynumber:** 1990WA22

**Reference:** Nucl.Instrum.Methods Phys.Res. A292, 671 (1990)

**Authors:** A.H.Wapstra

**Title:** Energy Calibration for 2-13 MeV Gamma Rays

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}N(n,\gamma)$ , E not given; analyzed  $\gamma$ -spectra data.  $^{15}N$ 

deduced calibration \( \gamma\)-energies.

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**Keyword abstract:** NUCLEAR STRUCTURE <sup>13</sup>C, <sup>16</sup>O; analyzed data; deduced calibration γ-energies.

T7 1 1000T0

**Keynumber:** 1990IS05

**Reference:** Nucl.Instrum.Methods Phys.Res. A287, 460 (1990)

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

 $\textbf{Title:} \ \text{Re-Estimation of the Thermal Neutron Capture Cross Section of} \ ^{14}N$ 

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}$ N(n, $\gamma$ ),E=thermal; measured E $\gamma$ ,I $\gamma$ ; deduced capture  $\sigma$ .

Carbon, Pb, Cl standards.  $^{28}$ ,  $^{29}$ ,  $^{30}$  Si(n,  $\gamma$ ), E not given; analyzed data; deduced capture  $\sigma$ . Nitrogen

standard.

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Keynumber: 1986KE14

**Reference:** Nucl.Instrum.Methods Phys.Res. A249, 366 (1986)

Authors: T.J.Kennett, W.V.Prestwich, J.S.Tsai

**Title:** The  $^{14}N(n,\gamma)^{15}N$  Reaction as both an Intensity and Energy Standard

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}$ N,  $^{9}$ Be,  $^{12}$ C(n,γ),E=reactor; measured γ-spectra following capture.  $^{15}$ N levels deduced input,output Iγ,weighted difference.  $^{10}$ Be levels deduced Iγ. Ge

detector surrounded by quadrisected NaI(Tl) annulus.

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**Keynumber:** 1985LAZX

**Reference:** Phys.Can. 41, No.3, 34, p.E1 (1985)

Authors: J.R.C.Lafontaine, J.W.Jury, J.Beland, N.R.Roberson, D.R.Tilley, H.R.Weller, J.G.Woodworth

**Title:** Radiative Neutron Capture Reactions on <sup>12</sup>C, <sup>13</sup>C and <sup>14</sup>N

**Keyword abstract:** NUCLEAR REACTIONS <sup>12</sup>, <sup>13</sup>C, <sup>14</sup>N(n, $\gamma$ ),E not given; measured  $\sigma(\theta)$ .

-----

**Keynumber:** 1983KE11

Reference: Nucl.Instrum.Methods 215, 159 (1983)

Authors: T.J.Kennett, W.V.Prestwich, R.J.Tervo, J.S.Tsai

**Title:** Evaluation of a Method for the Determination of Accurate Transition Energies in the  $(n, \gamma)$ 

Reaction

**Keyword abstract:** NUCLEAR REACTIONS <sup>9</sup>Be, <sup>14</sup>N, <sup>28</sup>, <sup>29</sup>Si(n,γ),E=0.5-11 MeV; measured Εγ,Ιγ. <sup>10</sup>Be, <sup>29</sup>, <sup>30</sup>Si, <sup>15</sup>N deduced neutron separation energy,level energies. High fidelity pulse height to energy transformation.

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Keynumber: 1982WE01

**Reference:** Phys.Rev. C25, 89 (1982)

Authors: S.A. Wender, H.R. Weller, N.R. Roberson, D.R. Tilley, R.G. Seyler

**Title:** Neutron Capture in the Giant Resonance Region of <sup>15</sup>N

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}$ N(n, $\gamma$ ),E=5.6-13 MeV; measured  $\sigma(\theta,E)$ , $\gamma(\theta)$ . Direct

semi-direct model.

**Keynumber:** 1981IS07

**Reference:** Nucl.Instrum.Methods 188, 243 (1981) **Authors:** M.A.Islam, W.V.Prestwich, T.J.Kennett

**Title:** Determination of the Thermal Radiative Capture Cross Section of <sup>14</sup>N

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}N(n,\gamma)$ , E=thermal; measured E $\gamma$ , I $\gamma$ ; deduced  $\sigma$ .

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**Keynumber:** 1980IS02

**Reference:** Can.J.Phys. 58, 168 (1980)

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**Authors:** M.A.Islam, T.J.Kennett, S.A.Kerr, W.V.Prestwich **Title:** A Self-Consistent Set of Neutron Separation Energies

**Keyword abstract:** NUCLEAR REACTIONS <sup>1</sup>H, <sup>9</sup>Be, <sup>14</sup>N, <sup>24</sup>, <sup>25</sup>Mg, <sup>27</sup>Al, <sup>28</sup>, <sup>29</sup>Si, <sup>32</sup>S, <sup>35</sup>Cl, <sup>40</sup>, <sup>44</sup>Ca, <sup>47</sup>, <sup>48</sup>, <sup>49</sup>Ti, <sup>50</sup>, <sup>52</sup>, <sup>53</sup>Cr, <sup>55</sup>Mn, <sup>54</sup>, <sup>56</sup>, <sup>57</sup>Fe(n,γ),E=thermal; measured Εγ,Ιγ. <sup>2</sup>H, <sup>10</sup>Be, <sup>25</sup>, <sup>26</sup>Mg, <sup>28</sup>Al, <sup>29</sup>, <sup>30</sup>Si, <sup>33</sup>S, <sup>36</sup>Cl, <sup>41</sup>, <sup>45</sup>Ca, <sup>48</sup>, <sup>49</sup>, <sup>50</sup>Ti, <sup>51</sup>, <sup>53</sup>, <sup>54</sup>Cr, <sup>56</sup>Mn, <sup>55</sup>, <sup>57</sup>, <sup>58</sup>Fe deduced Q,neutron binding energy.

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Keynumber: 1980GR12

**Reference:** Nucl.Instrum.Methods 175, 515 (1980)

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

**Title:** Precise  $\gamma$ -ray Energies from the  $^{14}N(n,\gamma)^{15}N$  and  $^{23}Na(n,\gamma)^{24}Na$  Reactions

**Keyword abstract:** NUCLEAR REACTIONS <sup>14</sup>N, <sup>23</sup>Na(n,γ),E=thermal; measured Eγ. <sup>24</sup>Na deduced

neutron binding energy. Ge semiconductor detectors.

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**Keynumber:** 1979WEZX

Coden: JOUR BAPSA 24 646,GK1,Wender

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}N(n,\gamma)$ , E=6-13 MeV; measured  $\sigma(E\gamma)$ ,  $\gamma(\theta)$ .  $^{15}N$ 

deduced E1 distribution, GDR. Compared with  $^{14}$ C(p, $\gamma$ ). Direct-semidirect calculation.

\_\_\_\_\_

**Keynumber:** 1978GRZM

**Coden:** CONF BNL(Neutron Capt γ-Ray Spectr), Contrib, No 29, Greenwood

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}N(n,\gamma)$ ,E=th; measured E $\gamma$ , $\gamma$ -energy differences for

known cascade-crossover transitions; deduced new energy calibration standards.

\_\_\_\_\_

**Keynumber:** 1975YOZW

Coden: REPT LA-UR-75-317,mf

Keyword abstract: NUCLEAR REACTIONS <sup>14</sup>N, <sup>27</sup>Al, <sup>56</sup>Fe,Mo, <sup>93</sup>Nb, <sup>181</sup>Ta,W, <sup>238</sup>U

 $(n,\gamma)$ , E=thermal, 14 MeV; calculated  $\sigma$ .

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**Keynumber:** 1975SM02

**Reference:** Phys.Rev. C11, 1392 (1975) **Authors:** L.G.Smith, A.H.Wapstra

**Title:** Masses of Isotopes of H, He, C, N, O, and F

**Keyword abstract:** ATOMIC MASSES <sup>3</sup>H, <sup>3</sup>He, <sup>13</sup>, <sup>14</sup>C, <sup>14</sup>, <sup>15</sup>N, <sup>16</sup>O, <sup>19</sup>F; measured atomic mass. **Keyword abstract:** NUCLEAR REACTIONS <sup>2</sup>H, <sup>3</sup>He, <sup>12</sup>, <sup>13</sup>C, <sup>14</sup>N(n,γ); calculated quadrupole

moment.

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**Keynumber:** 1974TH06

**Reference:** Nucl.Instrum.Methods 121, 65 (1974)

**Authors:** G.E.Thomas, R.H.Pehl

**Title:** Characteristics of a High-Purity Germanium Detector

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}$ N(n, $\gamma$ ); measured E $\gamma$ ,I $\gamma$ .  $^{15}$ N deduced transitions.

\_\_\_\_\_

**Keynumber:** 1974IS06

**Reference:** Nucl.Instrum.Methods 121, 193 (1974)

**Authors:** A.F.M.Ishaq, A.M.Khan, M.Anwar-Ul-Islam, M.R.Najam

Title: Precise Energies of Gamma Rays from Thermal Neutron Capture in Nitrogen

**Keyword abstract:** NUCLEAR REACTIONS  $^{14}$ N(n, $\gamma$ ),E=thermal; measured E $\gamma$ .  $^{15}$ N deduced

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transitions, neutron binding energy.

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**Keynumber:** 1974GR37

Reference: Nucl.Instrum.Methods 121, 385 (1974)

Authors: R.C.Greenwood, R.G.Helmer

**Title:** Gamma-Ray Energies from  $^{14}$ N(n, $\gamma$ ) $^{15}$ N and  $^{23}$ Na(n, $\gamma$ ) $^{24}$ Na Reactions: A Re-Evaluation

**Keyword abstract:** NUCLEAR REACTIONS <sup>14</sup>N, <sup>23</sup>Na(n,γ); analyzed data. <sup>15</sup>N, <sup>24</sup>Na deduced levels.

<sup>15</sup>N deduced neutron binding energy.

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Keynumber: 1972LO26

Reference: Nucl.Instrum.Methods 105, 453 (1972)

**Authors:** G.D.Loper, G.E.Thomas

**Title:** Gamma-Ray Intensity Standards: the Reactions  $^{14}$ N(n, $\gamma$ ) $^{15}$ N,  $^{35}$ Cl(n, $\gamma$ ) $^{36}$ Cl and  $^{53}$ Cr(n, $\gamma$ ) $^{54}$ Cr **Keyword abstract:** NUCLEAR REACTIONS  $^{35}$ Cl,  $^{50}$ ,  $^{52}$ ,  $^{53}$ Cr,  $^{14}$ N,  $^{207}$ Pb(n, $\gamma$ );E=thermal;  $^{36}$ Cl,  $^{51}$ ,

<sup>53</sup>, <sup>54</sup>Cr measured Εγ,Ιγ.

**Keynumber:** 1971BE34

**Reference:** Atomkernenergie 17, 145 (1971)

**Authors:** D.Bellman

**Title:** Strahlungsubergange vom Stickstoff und naturlichen Neon nach Einfang thermischer Neutronen **Keyword abstract:** NUCLEAR REACTIONS <sup>14</sup>N, <sup>20</sup>, <sup>21</sup>, <sup>22</sup>Ne(n,γ),E=thermal; measured Εγ,Ιγ;

deduced Q. <sup>15</sup>N, <sup>21</sup>, <sup>22</sup>, <sup>23</sup>Ne deduced transitions.

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Keynumber: 1970SP02

**Reference:** Nucl.Phys. A145, 449 (1970)

**Authors:** A.M.J.Spits, A.M.F. Op den Kamp, H.Gruppelaar

**Title:** Gamma Rays from Thermal-Neutron Capture in Natural and <sup>28</sup>Si Enriched Silicon

**Keyword abstract:** NUCLEAR REACTIONS  $^{28}$ ,  $^{29}$ ,  $^{30}$ Si,  $^{6}$ Li,  $^{14}$ N,  $^{19}$ F,  $^{27}$ Al,  $^{54}$ ,  $^{56}$ Fe,  $^{207}$ Pb(n,γ), E=thermal;  $^{28}$ Si(n,n'γ), E=fast; measured Eγ, Iγ; deduced Q.  $^{29}$ ,  $^{30}$ ,  $^{31}$ Si deduced levels, γ-branching.

Natural, <sup>28</sup>Si enriched targets, Ge(Li) detector.

**Keynumber:** 1969WE07

**Reference:** Phys.Rev. 181, 1465 (1969)

**Authors:** K.J.Wetzel

Title: Recoil Broadening of Secondary Transitions in Neutron-Capture Gamma-Ray Cascades

**Keyword abstract:** NUCLEAR REACTIONS  $^{10}B$ ,  $^{14}N(n,\gamma)$ , E= thermal; measured  $E\gamma$ , Doppler shift

attenuation.  $^{11}$ B,  $^{15}$ N levels deduced  $T_{1/2}$ .

**Keynumber:** 1968GRZY

Reference: Proc.Conf.Slow-Neutron-Capture Gamma-Ray Spectr., Argonne, Ill. (1966), F.E.Throw,

Ed., ANL-7282, p.303 (1968) **Authors:** R.C.Greenwood

Title: Precise Measurements of Primary Capture Gamma-Ray Energies Using a 'Bootstrap' Method

**Keyword abstract:** NUCLEAR REACTIONS <sup>9</sup>Be, <sup>14</sup>N, <sup>23</sup>Na(n,γ), E = thermal; measured Eγ, deduced

Q. Ge(Li) detector.

Keynumber: 1967RA24

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Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba

Press, p.278(1967)

Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai

**Title:** Determination of  $(n,\gamma)$  Reaction Q Values from Capture  $\gamma$ -Ray Spectra

**Keyword abstract:** NUCLEAR REACTIONS <sup>6</sup>Li, <sup>7</sup>Li, <sup>9</sup>Be, <sup>10</sup>B, <sup>12</sup>C, <sup>14</sup>N, <sup>19</sup>F, <sup>23</sup>Na, <sup>24</sup>Mg, <sup>25</sup>Mg, <sup>26</sup>Mg, <sup>27</sup>Al, <sup>28</sup>Si, <sup>31</sup>P, <sup>32</sup>S, <sup>35</sup>Cl, <sup>40</sup>Ca, <sup>45</sup>Sc, <sup>48</sup>Ti, <sup>51</sup>V, <sup>55</sup>Mn, <sup>54</sup>Fe, <sup>56</sup>Fe, <sup>59</sup>Co, <sup>58</sup>Ni, <sup>60</sup>Ni, <sup>63</sup>Cu, <sup>65</sup>Cu, <sup>66</sup>Zn, <sup>67</sup>Zn, <sup>73</sup>Ge, <sup>76</sup>Se, <sup>85</sup>Rb, <sup>87</sup>Rb, <sup>89</sup>Y, <sup>93</sup>Nb, <sup>103</sup>Rh, <sup>113</sup>Cd, <sup>123</sup>Te, <sup>133</sup>Cs, <sup>139</sup>La, <sup>141</sup>Pr, <sup>149</sup>Sm, <sup>153</sup>Eu, <sup>157</sup>Gd, <sup>159</sup>Tb, <sup>165</sup>Ho, <sup>167</sup>Er, <sup>169</sup>Tm, <sup>181</sup>Ta, <sup>182</sup>W, <sup>195</sup>Pt, <sup>197</sup>Au, <sup>199</sup>Hg, <sup>203</sup>Tl, <sup>207</sup>Pb(n,γ), E = thermal; measured Eγ; deduced Q. Natural targets.

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