

$^{74}\text{Ge}(\text{n},\text{n}),(\text{n},\gamma)$ :resonances [2006MuZX](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 114, 841 (2013)	30-Jun-2013

[2006MuZX](#): Evaluation of neutron resonances.

 $^{75}\text{Ge}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup>	L	Comments
6504.25? 5	1/2 <sup>+</sup>	0	Fictitious level. E <sub>n</sub> (lab)=-1.615 keV. gΓ <sub>n</sub> =0.195 eV.
6508.66 5	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=2.858 keV 8. gΓ <sub>n</sub> =8.2 eV 20, Γ <sub>γ</sub> =0.16 eV 4, gΓ <sub>n</sub> Γ <sub>γ</sub> /Γ=0.16 eV 4.
6508.85 5	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=3.051 keV 12. gΓ <sub>n</sub> =1.0 eV 6, Γ <sub>γ</sub> =0.23 eV 4, gΓ <sub>n</sub> Γ <sub>γ</sub> /Γ=0.19 eV 4.
6509.95 6	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=4.170 keV 25. gΓ <sub>n</sub> =0.064 eV 20.
6510.80 6	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=5.03 keV 3. gΓ <sub>n</sub> =84 eV 10.
6517.76 9	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=12.08 keV 7. gΓ <sub>n</sub> =14 eV 3.
6525.16 16	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=19.58 keV 15. gΓ <sub>n</sub> =140 eV 25.
6527.56 22	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=22.02 keV 20. gΓ <sub>n</sub> =50 eV 10.
6530.2 3	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=24.75 keV 25. gΓ <sub>n</sub> =22 eV 7.
6548.4 6	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=43.1 keV 5. gΓ <sub>n</sub> =0.40 keV 11.
6566.2 10	1/2 <sup>+</sup>	0	E <sub>n</sub> (lab)=61.2 keV 9. gΓ <sub>n</sub> =0.41 keV 14.

<sup>†</sup> E(level energy)=S(n)+ E<sub>n</sub>(lab)[mass of  $^{74}\text{Ge}$ ] / [mass of neutron+mass of  $^{74}\text{Ge}$ ], where S(n)=6505.84 5 ([2012Wa38](#)).