

$^{108}\text{Pd}(^{83}\text{Kr},3n\gamma)$  2006Gr16,2008Gr04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley		NDS 150, 1 (2018)	1-Feb-2018

2008Gr04 (2005Gr35,2006Gr16): E=340 MeV, target 0.95 mg/cm<sup>2</sup>, degrader foil of 2.5 mg/cm<sup>2</sup> Mg. Measured recoil- $\gamma$  coin using the GREAT spectrometer at RITU and fifteen JUROGAM Ge detectors. Deduced lifetimes using the recoil-distance Doppler-shift method.

2003De24:  $^{40}\text{Ca}(^{152}\text{Sm},4n\gamma)$  at 805 MeV, target 0.800 mg/cm<sup>2</sup>, degrader foil of 4 mg/cm<sup>2</sup>. Measured recoil- $\gamma\gamma$  using FMA and 101 Ge detectors of Gammasphere. Deduced lifetimes using differential-decay curve method.

 $^{188}\text{Pb}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub> <sup>#</sup>	Comments
0	0 <sup>+</sup>		
723.5 <sup>@</sup>	2 <sup>+</sup>	5.9 ps 24	T <sub>1/2</sub> : From 3.5-8.3 ps in 2008Gr04. Other: 9 ps 5 (2003De24).
1063.7 <sup>@</sup>	4 <sup>+</sup>	11.0 ps 7	T <sub>1/2</sub> : Other: 11 ps 6 (2003De24).
1433.4 <sup>@</sup>	6 <sup>+</sup>	2.8 ps 4	
1867.2 <sup>@</sup>	8 <sup>+</sup>	1.7 ps 3	

<sup>†</sup> From a least-squares fit to E $\gamma$ .

<sup>‡</sup> From Adopted Levels.

<sup>#</sup> From 2005Gr35,2006Gr16,2008Gr04, unless otherwise stated.

<sup>@</sup> Band(A): Prolate-deformed band.

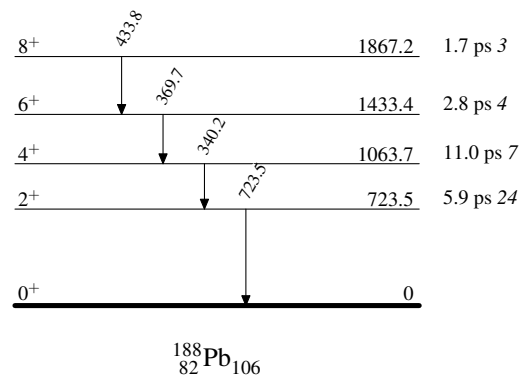
 $\gamma(^{188}\text{Pb})$ 

E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>
340.2	1063.7	4 <sup>+</sup>	723.5	2 <sup>+</sup>
369.7	1433.4	6 <sup>+</sup>	1063.7	4 <sup>+</sup>
433.8	1867.2	8 <sup>+</sup>	1433.4	6 <sup>+</sup>
723.5	723.5	2 <sup>+</sup>	0	0 <sup>+</sup>

<sup>†</sup> From Adopted gammas.

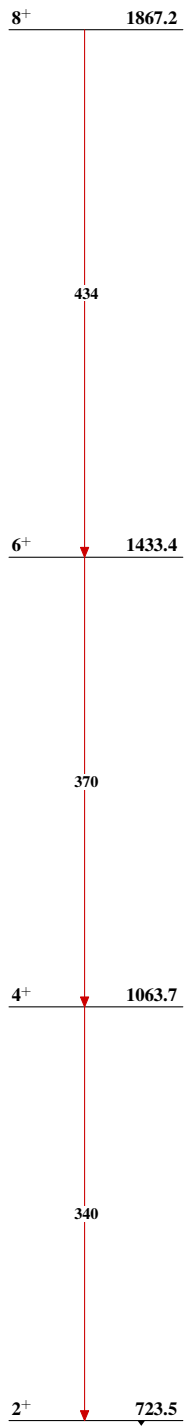
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Level Scheme



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Band(A): Prolate-deformed band

 $^{188}_{82}\text{Pb}_{106}$