

$^{198}\text{Pt}(^{82}\text{Se}, ^{80}\text{Se}\gamma)$ 2017Jo07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

2017Jo07: E(^{82}Se)=426 MeV. Target=2 mg/cm² thick self-supporting ^{198}Pt . Experiments performed at XTU Tandem-ALPI accelerator of the LNL-Legnaro. Reaction products were identified by the PRISMA spectrometer. Measured E γ , I γ , recoil- $\gamma\gamma$ -coin using AGATA array.

 ^{200}Pt Levels

E(level) [†]	J π [‡]	T _{1/2} [#]	Comments
0.0 [@]	0 ⁺		
469.4 [@] 10	2 ⁺		
866.6 14	2 ⁺		
1102.4 [@] 14	4 ⁺		
1267.4 15	4 ⁺		
1565.0 15	5 ⁻		
1565.0+x	7 ⁻	14.2 ns 6	Additional information 1.
1882.5 [@] 17	(6 ⁺)		
2274.6+x 10			
2751 [@] 4	(8 ⁺)		
2816.4+x 15			
3134.8+x 18			
3134.8+y	(12 ⁺)	13.4 ns 10	Additional information 2.

[†] From a least-squares fit to E γ .

[‡] From 2017Jo07, based on previous assignments in literature, and band assignment in the present work.

[#] From Adopted Levels.

[@] Band(A): Ground-state, K π =0⁺ band.

 $\gamma(^{200}\text{Pt})$

E γ [†]	I γ [†]	E _i (level)	J π _i	E _f	J π _f	E γ [†]	I γ [†]	E _i (level)	J π _i	E _f	J π _f
297.4 10	3 3	1565.0	5 ⁻	1267.4	4 ⁺	469.4 10	100 6	469.4	2 ⁺	0.0	0 ⁺
317.4 10	8 4	1882.5	(6 ⁺)	1565.0	5 ⁻	541.8 10	4 3	2816.4+x		2274.6+x	
318.4 10	9 5	3134.8+x		2816.4+x		633.2 10	46 5	1102.4	4 ⁺	469.4	2 ⁺
397.0 10	24 6	866.6	2 ⁺	469.4	2 ⁺	709.6 10	6 4	2274.6+x		1565.0+x	7 ⁻
400.6 10	15 5	1267.4	4 ⁺	866.6	2 ⁺	780.4 20	9 4	1882.5	(6 ⁺)	1102.4	4 ⁺
462.7 10	19 4	1565.0	5 ⁻	1102.4	4 ⁺	869 3	2 2	2751	(8 ⁺)	1882.5	(6 ⁺)

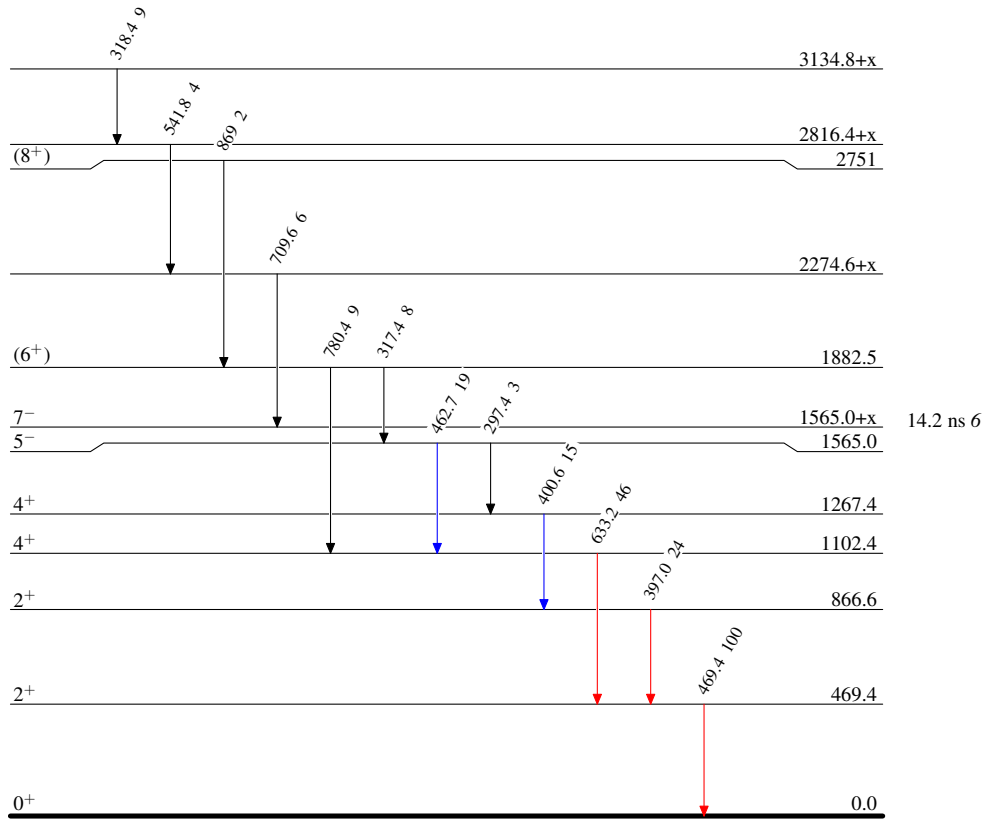
[†] From 2017Jo07.

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Level Scheme
Intensities: Relative I_γ

Legend

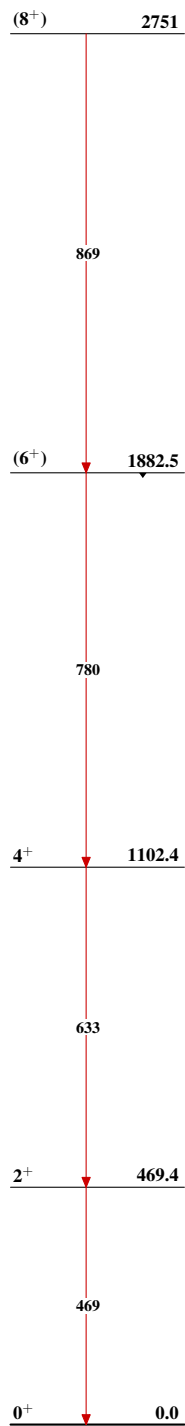
- \blacktriangleright $I_\gamma < 2\% \times I_\gamma^{max}$
- $\color{blue}\blacktriangleright$ $I_\gamma < 10\% \times I_\gamma^{max}$
- $\color{red}\blacktriangleright$ $I_\gamma > 10\% \times I_\gamma^{max}$



$^{200}_{78}\text{Pt}_{122}$

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Band(A): Ground-state,
 $K^\pi=0^+$ band

 $^{200}_{78}\text{Pt}_{122}$