^{82}Se IT decay (6.6 ns) 1999Ma21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne	NDS 157, 260 (2019)	1-Mar-2019

Parent: ^{82}Se: E=3518.6 *5*; J^π=(8^+); $T_{1/2}$=6.6 ns *4*; %IT decay=100.0
Other (same work): 1999MaZH, 2002Is03.
Produced In deep-inelastic collision of 743 MeV ^{82}Se with ^{198}Pt.
Measured γ, $\gamma\gamma$, γ(t).

^{82}Se Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
654.8 *3*	2^+		
1735.2 *5*	4^+		
3145.1 *6*	(6^+)		
3518.6 *5*	(8^+)	6.6 ns *4*	J^π: assumed stretched E2 cascade. Expected Configuration=(ν $g_{9/2}$)$^{-2}$.

γ(^{82}Se)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	$I_{(\gamma+ce)}$‡
373.5 *3*	3518.6	(8^+)	3145.1	(6^+)	100
654.8† *3*	654.8	2^+	0.0	0^+	100
1080.4† *3*	1735.2	4^+	654.8	2^+	100
1409.9 *3*	3145.1	(6^+)	1735.2	4^+	100

† Uncertainty assumed by the evaluators.
‡ Absolute intensity per 100 decays.

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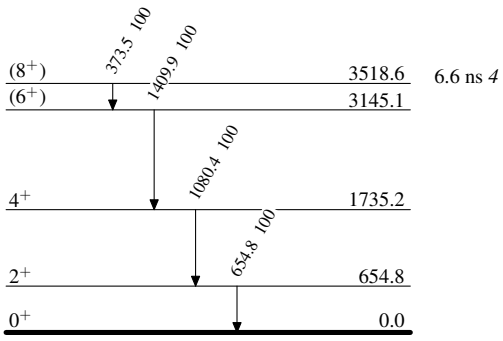
Decay Scheme

%IT=100.0



$^{82}_{34}Se_{48}$