

$^{208}\text{Pb}(^7\text{Li},t\gamma)$ **1980Sj01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	K. Auranen and E. A. Mccutchan		NDS 168, 117 (2020)	1-Aug-2020

1980Sj01: $E(^7\text{Li})=30-34 \text{ MeV}$. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma(^{212}\text{Po g.s.})\alpha$, $\gamma(\theta)$, $\gamma(t)$.

$\gamma(t)$ shows that all γ rays have a delayed component suggesting an isomeric state at or above the 1354.0 level. The 727.4 γ also has a prompt component.

 ^{212}Po Levels

$E(\text{level})^\dagger$	$J^\pi \ddagger$
0.0	0^+
727.4 3	2^+
1132.5 4	4^+
1354.0 5	6^+

† From $E\gamma$.

‡ From the Adopted Levels.

 $\gamma(^{212}\text{Po})$

E_γ	I_γ^\dagger	$E_t(\text{level})$	J_i^π	E_f	J_f^π	Comments
221.5 3	20 2	1354.0	6^+	1132.5	4^+	$\gamma(\theta)$ of 221.5 γ nearly isotropic.
405.1 3	31 8	1132.5	4^+	727.4	2^+	I_γ : γ ray observed as a doublet with a 405 keV γ in ^{213}At . Relative intensity deduced from coincidence experiments.
727.4 3	100	727.4	2^+	0.0	0^+	$\gamma(\theta)$ of 727.4 γ nearly isotropic.

† Relative intensity.

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Legend

Level Scheme

Intensities: Relative I_γ

- $I_\gamma < 2\% \times I_\gamma^{\max}$
 - $I_\gamma < 10\% \times I_\gamma^{\max}$
 - $I_\gamma > 10\% \times I_\gamma^{\max}$
- Coincidence

