
 $^{208}\text{Pb}(\alpha, \text{p})$ [1977FI08](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan, C. M. Baglin, O. Gorbachenko, N. Todorovic		NDS 114, 661 (2013)	28-Feb-2013

$E\alpha=35.5$ MeV; energy-loss spectrometer and helical detector (35 keV resolution); measured $\sigma(\theta)$, $\theta(\text{c.m.})\approx 15^\circ$ to 55° (2 levels, 6 or 7 angles); DWBA analysis; deduced C^2S .

 ^{211}Bi Levels

E(level) [†]	J^π [‡]	L	S	Comments
0.0	$9/2^-$		0.97	S: strength relative to the $^{206}\text{Pb}(\alpha, \text{p})^{209}\text{Bi}$ g.s. transition. Configuration: $[\pi \text{ h}_{9/2} \otimes ^{210}\text{Pb}(0^+)]9/2^-$.
410	$7/2^-$	[3]	0.52 10	L: based on known spin. S: strength relative to the $^{206}\text{Pb}(\alpha, \text{p})^{209}\text{Bi}$ transition to the 897 f7/2 level. Dominant configuration= $((^{210}\text{Pb } 0^+)(\pi \text{ 2f}_{7/2}))$. 52% 10 of the $\pi \text{ f}_{7/2}$ strength is in the 410-keV level, based on the measured strength and the assumption that configurations, other than the one indicated, are not excited.
≈ 795				E(level): 766+793+827 levels unresolved.
951				
1060				

[†] From [1977FI08](#), uncertainty unstated.

[‡] From Adopted Levels.