^{208}Pb(^{7}Li,αpγ) E=33 MeV 1980Sj01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 121, 561 (2014)	31-Mar-2014

Enriched (>99%) ^{208}Pb target bombarded with ^{7}Li beam, E=30-34 MeV, γ rays detected by large coaxial Ge(Li) detectors, weak γ rays by planer Ge detectors, α particles detected by Si detectors. Measured Eγ, γ-γ coin, and deduced mean lifetime from time differential measurements.

^{210}Pb Levels

E(level)	J^{π} ‡	$T_{1/2}$ †	Comments
0.0	0^+		
799	2^+		
1096	4^+		
1195	6^+	21 ns *7*	
1274	8^+	156 ns *15*	$T_{1/2}$: other: 152 ns *13* (1981Bo29) from (799γ) (t) pulsed beam via ^{208}Pb(^{18}O,^{16}O′γ) E=80 MeV.

† From (297γ)(t) pulsed beam, two-component Iγ(t) curve. Other values from (799γ)(t) pulsed beam.
‡ From Adopted Levels.

γ(^{210}Pb)

E$_\gamma$	E$_i$(level)	J_i^{π}	E$_f$	J_f^{π}	Mult.†
79‡ *7*	1274	8^+	1195	6^+	(E2)
99‡ *7*	1195	6^+	1096	4^+	(E2)
297	1096	4^+	799	2^+	
799	799	2^+	0.0	0^+	

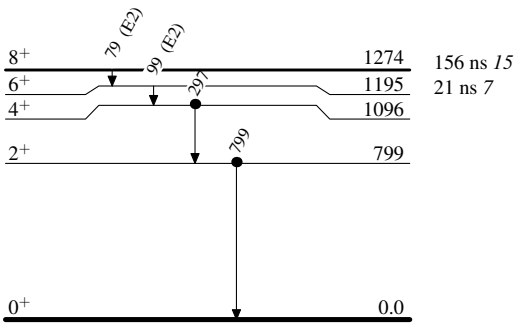
† Consistent with γ-placement and B(E2) syst.
‡ From 1972Fl10.

^{208}Pb(^{7}Li,αpγ) E=33 MeV 1980Sj01

Level Scheme

Legend

● Coincidence



$^{210}_{82}Pb_{128}$