^{210}Pb(p,t)   1971Ig03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 108,1583 (2007)	1-Jun-2007

E=20, FWHM=17 keV, $\theta=10°-80°$.

Data of 1971Ig03 supersede those of 1970Ig01. 1972Os05 obtain spectroscopic factors for the g.s. and first two excited levels based on an analysis of data of 1971Ig03.

^{208}Pb Levels

E(level)	L[‡]	S	E(level)	L[‡]	E(level)	L[‡]	E(level)	L[‡]
0.0	0[†]	0.89	4693 *15*		5685 *15*	8	6404 *20*	
2614 *5*	3[†]	0.91	4843		5698 *20*		6450 *20*	1,2
3200 *5*	5[†]	0.86	4859 *15*	0	5801 *20*	2	6467 *20*	
3961 *10*	5,6		4935 *15*	2	5937 *20*	2	6497 *20*	
4037 *10*	8		5072 *15*	2,5	5973 *20*	2	6547 *20*	
4086 *10*	2		5202 *15*	5,6	6174 *20*	2	6577 *20*	2
4178 *12*	5		5237 *15*	0	6233 *20*	2,5	6600 *20*	
4252 *12*	3,5		5280 *15*	1,2	6257 *20*		6677 *20*	2
4293 *12*	5,6[#]		5505 *15*	1,2	6333 *20*		6726 *20*	8
4317 *12*	2,5		5551 *15*	2	6340 *20*	2		
4424 *12*	2,5		5628 *15*	2	6380 *20*	3		

[†] Based on known level J.

[‡] From a comparison of angular distributions with those to known low-lying 0$^+$, 3$^-$, 5$^-$ levels In ^{208}Pb, and with those obtained In ^{208}Pb(t,p) and ^{207}Pb(t,p) reactions to levels with known spin. Empirical shapes are not available for L>8. Also, for large L, a fit to a given L is not sufficiently unique to rule out adjacent L's. The authors suggest that an assignment of L=6 should include the additional possibility of L=7, while an assignment of L=8 should include the additional possibility of L=7,9. The L-values of 1971Ig03 are given here only where the choice for a given level is restricted to fewer than 4 alternatives.

[#] From authors' FIG.4. Table I gives L=5.