^{204}Pb(p,p′) IAR 1968Le09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev	NDS 111,141 (2010)	1-Oct-2009

1968Le09: ^{204}Pb target enriched to 99.7%, thickness not given, on 20−μg/cm^2 C foil; E(p)=10-16 MeV; two Si(Li) detectors, FWHM=50-60 keV; measured $\sigma(\theta)$.

^{204}Pb Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	L#@	E(level)†	L#@	E(level)†	L#@
0	0^+	1660&	2^+		4190[b]	4	4620[b]	4
900&	2^+	1860&	$1^{(+)}$		4290[b]	4	4650[b]	4
1280&	4^+	1950&	3^+		4340[b]	4		
1350?&	2^+	2630[a]	3^-		4460[b]	4		
1560&	4^+	4140[b]		4	4530[b]	4		

† From 1968Le09.
‡ From Adopted Levels.
# From elastic scattering excitation function in 1968Le09.
@ Additional information 1.
& Resonantly enhanced at E(p)=12.35 MeV, corresponding to proton decay of analog resonances of $f_{5/2}$ and $p_{1/2}$ in ^{205}Pb.
[a] Resonantly enhanced at E(p)≈14.85 MeV.
[b] Resonantly enhanced at E(p)=14.97 MeV, corresponding to triplet of $g_{9/2}$ states at 2.6 MeV in ^{205}Pb.