

$^{208}\text{Pb}(\alpha, ^2\text{He})$ 1993Vo02

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

Target: 97% enriched ^{208}Pb . Projectile: alpha particles, E=55 MeV. Measured coincident scattered protons (2-proton breakup of ^2He). Detector: Double E-ΔE telescope with Si(Li) counters. FWHM=200-250 keV. DWBA data analysis. Deduced angular momentum transfers (L values).

 ^{210}Pb Levels

E(level)	J ^π	L	Comments
0.0	0 ⁺	0	Configuration=(ν 2g _{9/2}) ² .
1210	8 ⁺	8	Configuration=(ν 2g _{9/2}) ² .
1800	10 ⁺	10	Configuration=((ν 2g _{9/2})(ν 1i _{11/2}))10 ⁺ .
2520	(11 ⁻)	(11,6)	Configuration=((ν 2g _{9/2})(ν 1j _{15/2}))11 ⁻ .
3130	(13 ⁻)	(13,8)	Configuration=((ν 1i _{11/2})(ν 1j _{15/2}))13 ⁻ .
3440	(6 ⁺ ,8 ⁺)	(6,8)	
3990	(14 ⁺)	(14,9)	Configuration=(ν 1j _{15/2}) ² 14 ⁺ .
4370	(9 ⁻)	(9,14)	Configuration=((ν 1j _{15/2})(ν 3d _{5/2}))9 ⁻ .
4890	(11 ⁻)	(11,9)	Configuration=((ν 1j _{15/2})(ν 2g _{7/2}))11 ⁻ .