^{206}Pb(^{118}Sn,^{117}Sn) 2003Pe08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski	NDS 112, 707 (2011)	1-Aug-2010

2003Pe08: Facility: UNILAC at GSI-Darmstadt; Beam: E(^{118}Sn) = 5.14 MeV/u and 5.32 MeV/u; Target: 400 μg/cm^2 enriched in ^{206}Pb, carbon backing used; Detectors: 5 Euroball Cluster detectors with BGO shield (FWHM=2.5 keV, ε=2.2% for 1332γ), Crystal Ball detector, comprising 130 NaI detectors (FWHM=90keV for 1332γ), $\varepsilon_{\text{Clusters + Crystal ball}}$=80%, Pyramid detector comprising three Parallel-Plate Avalanche Counters (FWHM=1 mm); Measured: ^{117}Sn-γ coin., Eγ, ^{117}Sn position, $\sigma(\theta)$; Deduced: Doppler corrected level energies, DWBA; Also: 2004Vo05 from the same collaboration.

Others: 2004Vo05, 1999Pe05.

^{207}Pb Levels

E(level)†	J$^\pi$‡	S†	Comments
0.0	1/2$^-$	0.8	configuration: $\nu(3p_{1/2})^{-1}$.
571	5/2$^-$	0.35	configuration: $\nu(2f_{5/2})^{-1}$.
2730	9/2$^+$	0.98	configuration: $\nu(1g_{9/2})^{-1}$.
3510	13/2$^+$	0.70	configuration: $\nu(1i_{13/2})^{-1}$.
4110	15/2$^-$	1.20	configuration: $\nu(1j_{15/2})^{+1}$.
4390	5/2$^+$	1.10	configuration: $\nu(3d_{5/2})^{+1}$.
4630	1/2$^+$	1.10	configuration: $\nu(4s_{1/2})^{+1}$.

† From 2003Pe08.
‡ From DWBA in 2003Pe08.