

$^{208}\text{Pb}(^{136}\text{Xe},\text{X}\gamma),(^{208}\text{Pb},\text{X}\gamma)$ **2000Re12**

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

Facility: UNILAC-GSI; Beam: $E(^{136}\text{Xe})=5.7 \text{ MeV/A}$, $E(^{208}\text{Pb})=6.5 \text{ MeV/A}$; Target: 30 mg/cm^2 enriched to 98.7% in ^{208}Pb ;
 Detectors: 5 EUROBALL Cluster detectors (Eff=2.2%), 132 NaI Crystal Ball detectors (Eff= 53%); Measured: $\gamma\gamma(t)$ coin, $E\gamma$,
 $I\gamma$.

Also: [1999ReZT](#) and [1998Wo15](#) – from the same collaboration.

 ^{207}Pb Levels

E(level) [†]	J [‡]	Comments
0.0	1/2 ⁻	
570	5/2 ⁻	
1633	13/2 ⁺	configuration: 96% $\nu(1i_{13/2})^{-1}x0^+$ and 4% $\nu(2f_{7/2})^{-1}x3^-$ (2000Re12).
2340	7/2 ⁻	configuration: 83% $\nu(2f_{7/2})^{-1}x0^+$ and 17% $\nu(1i_{13/2})^{-1}x3^-$ (2000Re12).
2662	7/2 ⁺	B(E3)=0.37 3 (1998Wo15).
4118	19/2 ⁻	configuration: $\nu(3p_{1/2})^{-1}x3^-$, 1-phonon octupole state (1998Wo15). configuration: 94% $\nu(1i_{13/2})^{-1}x3^-$ and 6% $\nu(1f_{7/2})^{-1}x(3^-)^2$ (2000Re12).

[†] Rounded off from Adopted Levels.

[‡] From Adopted Levels.

 $\gamma(^{207}\text{Pb})$

E_γ [†]	E_i (level)	J_i^π	E_f	J_f^π
2485	4118	19/2 ⁻	1633	13/2 ⁺

[†] From [2000Re12](#).

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Level Scheme

