

$^{208}\text{Pb}(^{12}\text{Be},\gamma^{12}\text{Be})$ 2000Iw03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968, 71 (2017)	1-Jan-2017

2000Iw03: $^{208}\text{Pb}(^{12}\text{Be}, ^{12}\text{Be}')$ $E \approx 54$ MeV/nucleon, measured E_γ , I_γ , (particle) γ -coin following projectile Coulomb excitation.

Deduced angle-integrated $\sigma(\theta)$. ^{12}Be deduced level J, π , excitation B(E1), shell features.

2002Iw01: $^{208}\text{Pb}(^{12}\text{Be}, ^{12}\text{Be}')$ $E = 54.6$ MeV/nucleon; measured E_γ , I_γ , (particle) γ -coin. ^{12}Be deduced levels, J, π , transition probabilities, quadrupole collectivity.

2003Sh35: $^{208}\text{Pb}(^{12}\text{Be}, ^{12}\text{Be}')$ E not given, measured E_γ , I_γ , $\gamma\gamma$ -coin, angular correlations. ^{12}Be deduced levels, J, π .

 ^{12}Be Levels

E(level) [†]	J π	T _{1/2}	Comments
0			
2110 20			$\delta = 2.00$ 23 and $\beta \approx 0.7$.
2680 30	1 ⁻	1.3 fs 4	T _{1/2} : From B(E1).

[†] From (2000Iw03).

 $\gamma(^{12}\text{Be})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	Comments
2110 20	2110		0	
2680 30	2680	1 ⁻	0	B(E1) _d = 0.051 13

 $^{208}\text{Pb}(^{12}\text{Be},\gamma^{12}\text{Be})$ 2000Iw03Level Scheme