

¹²C(⁴⁸Ca,⁸Beγ) 2006Sp02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

E(⁴⁸Ca)=100 MeV. Measured g factors and lifetimes using inverse kinematic reaction in combination with transient magnetic fields and Doppler shift attenuation method. For γ-ray detection four NaI(Tl) detectors and a Ge detector were used. Detailed α-γ correlations measured.

⁵²Ti Levels

E(level)	J ^π	T _{1/2} [†]	Comments
0	0 ⁺		
1050	2 ⁺	3.60 ps 14	g=+0.83 19 (2006Sp02)
2265	2 ⁺		
2318	4 ⁺	3.3 ps 4	g=+0.46 15 (2006Sp02)
2432	2 ⁺	0.15 ps 3	
3028	6 ⁺		
3453	3 ⁻		

[†] From DSAM.

γ(⁵²Ti)

E _γ	E _i (level)	J _i ^π	E _f	J _f ^π
710	3028	6 ⁺	2318	4 ⁺
1050	1050	2 ⁺	0	0 ⁺
1135	3453	3 ⁻	2318	4 ⁺
1215	2265	2 ⁺	1050	2 ⁺
1268	2318	4 ⁺	1050	2 ⁺
1382	2432	2 ⁺	1050	2 ⁺

$^{12}\text{C}(^{48}\text{Ca}, ^8\text{Be}\gamma)$ 2006Sp02

Level Scheme

