

Coulomb excitation 1985Bu01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

1958Fa01: ($\alpha, \alpha' \gamma$) E=5.6 MeV.

1985Bu01: ($^{12}\text{C}, ^{12}\text{C}'$) E=40 MeV.

1980Br01: ($^{32}\text{S}, ^{32}\text{S}' \gamma$). Measured $\gamma(\theta, H)$. Deduced g factor.

 ^{132}Ba Levels

E(level)	J^π †	$T_{1/2}$ ‡	Excitation probability	Comments
0.0	0 ⁺			
465	2 ⁺	15.1 ps 11	0.0750 14	B(E2)↑=0.86 6 g=+0.34 3 (1980Br01) B(E2)=0.821 16 or 0.897 16, depending on whether the sign of product of four matrix elements is negative or positive. Other: 0.73 18 (1958Fa01). 2001Ra27 adopt B(E2)=0.86 6.
1032	2 ⁺	1.08 ps 10	0.00458 14	B(E2)↑=0.073 3 B(E2)(W.u.)(from 465, 2 ⁺)=0.58 6.
2070	3 ⁻		0.00051 4	B(E3)↑=0.176 22

† From Adopted Levels.

‡ From B(E2) and adopted branching ratios of γ rays.

 $\gamma(^{132}\text{Ba})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
465	465	2 ⁺	0.0	0 ⁺

Coulomb excitation 1985Bu01Level Scheme