Coulomb excitation 2002Ke02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli	NDS 113, 973 (2012)	15-Apr-2012

2002Ke02: target=C, beam=^{62}Zn at 160 MeV produced in ^{12}C(^{58}Ni,2α) at E(^{58}Ni)=155 MeV. Measured Eγ, $\alpha\gamma$ coin., $\gamma(\theta$,H,t), lifetimes by DSA following projectile Coulomb excitation in inverse kinematics. Deduced g factors. Comparisons with predictions of large-scale shell model calculations.
Additional information 1.

^{62}Zn Levels

E(level)	J$^\pi$	T$_{1/2}$ †	Comments
0.0	0$^+$		
953.9	2$^+$	2.98 ps *21*	g=+0.37 *10* (2002Ke02) g factor measured by 2002Ke02 using projectile Coulomb excitation in inverse kinematics and transient magnetic fields. Data reanalyzed in 2010Mo14 with the same result of +0.37 *10*.
1804.6	2$^+$		
2185.9	4$^+$	0.83 ps *7*	
2384.9	3$^+$		

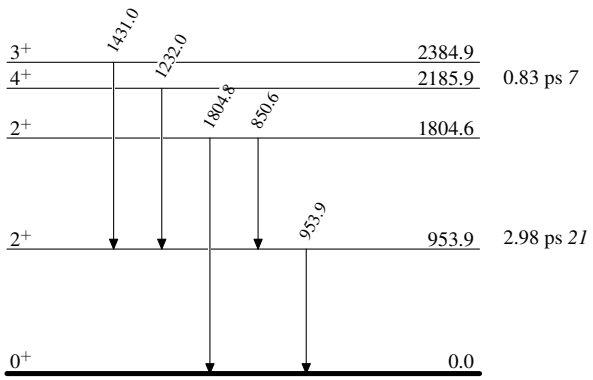
† From DSAM (2002Ke02).

$\gamma(^{62}$Zn)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
850.6	1804.6	2$^+$	953.9	2$^+$
953.9	953.9	2$^+$	0.0	0$^+$
1232.0	2185.9	4$^+$	953.9	2$^+$
1431.0	2384.9	3$^+$	953.9	2$^+$
1804.8	1804.6	2$^+$	0.0	0$^+$

Coulomb excitation 2002Ke02

Level Scheme



$^{62}_{30}Zn_{32}$