

Coulomb excitation 1998Si25,1979BrZP,1962St02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

1998Si25: E(p)=2.0-4.5 MeV. Measured E γ , I γ using Ge(Li) detector; deduced B(E2) \uparrow .

1974Iv01: E α =13 MeV. Measured E γ , T $_{1/2}$ with DSAM.

1965Ro09: E α =6-9 MeV. Measured E γ .

1962St02: E α =3-10 MeV. Measured B(E2) \uparrow .

1979Fa06: E(^{16}O)=36 MeV. Measured E γ , I γ , $\gamma(\theta)$, g-factor by IMPAC.

1973Fi15: E(^{35}Cl)=56-68 MeV. Measured E γ , T $_{1/2}$ with DSAM.

1979BrZP: E(^{32}S)=72 MeV. Measured g-factor by transient field method.

Other: 1978BeZJ.

 ^{68}Zn Levels

E(level)	J $^{\pi}$ \dagger	T $_{1/2}$	Comments
0	0 $^+$		
1077.6 8	2 $^+$	1.68 ps 11	B(E2) \uparrow =0.111 9 T $_{1/2}$: weighted av of 1.86 ps 13 from B(E2) \uparrow (1998Si25), 1.56 ps 14 from B(E2) \uparrow (1962St02) and 1.57 ps 16 (1973Fi15) from DSAM. Other: 0.90 ps 20 (1974Iv01) from DSAM. B(E2) \uparrow : weighted average of 0.125 11 (1962St02) and 0.105 7 (1998Si25). B(E2)=0.1211 15 from the adopted T $_{1/2}$ in the Adopted Levels. g: 0.62 12 (1979BrZP). Other: 0.38 15 (1979Fa06).
2750.76 8	3 $^-$	0.42 ps 14	T $_{1/2}$: from DSAM (1974Iv01). E(level): from the Adopted Levels.

\dagger From the Adopted Levels.

 $\gamma(^{68}\text{Zn})$

E γ	E $_i$ (level)	J $_i^{\pi}$	E $_f$	J $_f^{\pi}$	Comments
1077.6 8	1077.6	2 $^+$	0	0 $^+$	E γ : from 1965Ro09.
1673.29 10	2750.76	3 $^-$	1077.6	2 $^+$	E γ : from the Adopted Gammas.

Coulomb excitation 1998Si25,1979BrZP,1962St02Level Scheme