Coulomb excitation 1981Le02,1981Ha23,1979An04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huo Su, Yang Dong	NDS 112, 1513 (2011)	29-Oct-2009

Others: 1969Sp05, 1972Ca05, 1967No04, 1970Sc15, 1972Le19, 1971Th14, 1965Es01.
^{56}Fe(α,α'): E=6-9 MeV (1965Ro09); E=7.5, 8.0 MeV (1972Ca05); E=3-6.5 MeV (1979An04).
^{56}Fe(^{12}C,^{12}C′): E=22 MeV (1981Le02).
^{56}Fe(^{14}C,^{14}C′): E=51 MeV (1981Ha23).
^{56}Fe(^{16}O,^{16}O′): E=27, 30 MeV (1972Ca05); E=22-40 MeV (1971Th14); E=25, 30 MeV (1970Sc15); E=14-35 MeV, DSA (1969Sp05); E=33 MeV (1964El03 and 1967No04); E=34 MeV, DSA (1965Es01).
^{56}Fe(^{32}S,^{32}S′γ): E=65 MeV (1972Le19); E=56 MeV (1971Th14).
For Coulomb-nuclear interference, see 1974St11.
See also 1980Gl06.

^{56}Fe Levels

E(level)†	Jπ†	$T_{1/2}$	Comments
0	0^+		
846.75 *1*	2^+	6.07 ps *23*	B(E2)↑=0.107 *4* g=+0.60 *10* (1974Hu01) Q=−0.233 $T_{1/2}$: from B(E2). Others: 7.8 ps *+28−17* (1965Es01), DSA 7.1 ps *14* (1969Sp05), DSA. B(E2)↑: From weighted average of values 0.109 *15* (1969Sp05), 0.111 *6* (1972Ca05), and 0.102 *6* (1981Le02). Others: 1964El03 report the ratio B(E2)↑(847)=(9.30 *9*)×B(E2) (668 level in ^{63}Cu). For B(E2)(^{63}Cu)=0.0113 *8* (1980Ku08), one gets B(E2)(847)=0.105 *8*. 0.097 (1964El03,1967No04). Q: From weighted average of −0.19 *8* (1981Le02), −0.23 *3* (1971Th14), and −0.25 *6* (1972Le09), based on reorientation effect. Others: −0.34 *6* (1970Sc15), −0.12 *16* or +0.02 *16* (1972Ca05).

† From Adopted Levels.