

Coulomb excitation [1979Fe05](#),[1977Sc36](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty		NDS 186, 2 (2022)	31-Mar-2022

Other references: [1975Bi03](#), [1971Vi01](#), [1970Ha04](#), [1969Pe11](#).

[1979Fe05](#): $^{208}\text{Pb}(^{24}\text{Mg},^{24}\text{Mg})$ E=80-110 MeV. Measured Coulomb excitation probability.

[1977Sc36](#): $^{24}\text{Mg}(x,x')$ E=39.5-56 MeV, x= $^{28,29,30}\text{Si}$, ^{31}P , $^{32,33,34}\text{S}$, ^{37}Cl . Measured $\sigma(E\gamma)$, DSA, Coulomb excitation.

 ^{24}Mg Levels

E(level)	$T_{1/2}$	Comments
0		
1369	1.33 ps 7	$T_{1/2}$: From average of 1.32 ps 7 (1979Fe05 from $\tau=1.91$ ps 10, $B(E2)\uparrow=0.0445$ 24), 1.33 ps 7 (1977Sc36 – from $\tau=1.92$ ps 10 (DSA)), 1.39 ps 9 (1970Ha04 – from $\tau=2.00$ ps 14, $B(E2)\uparrow=0.0425$ 29), 1.40 ps 7 (1971Vi01 – from 2.02 ps 10, $B(E2)\uparrow=0.042$ 2), 1.34 ps 9 (1975Bi03 – from $\tau=1.93$ ps 13, $B(E2)\uparrow=0.044$ 3), and 1.14 ps 10 (1969Pe11 – from $\tau=1.65$ ps 15). Uncertainty is the lowest input value. Other half-life: 1.53 ps 21 (2001Ch56 , 2001Co20 – from $\tau=2.22$ ps 31, $B(E2)\uparrow=0.0383$ 53).