

Coulomb excitation 1996Sc31

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen [#] and Balraj Singh		NDS 135, 1 (2016)	31-May-2016

1996Sc31: $^{197}\text{Au}(^{42}\text{S}, ^{42}\text{S}')$ $E=1.7$ GeV. ^{42}S beam was obtained from fragmentation of ^{48}Ca beam with a ^9Be target. Measured γ -particle coincidence following Coulomb excitation using position-sensitive NaI detector array.

 ^{42}S Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	0^+		
890 15	2^+	12.8 ps 23	$B(E2)^\dagger=0.0397$ 63 (1996Sc31) $T_{1/2}$: from $B(E2)$, for Adopted $E_\gamma=903$ 5, half-life=11.9 ps 20 given in Adopted Levels.

[†] From Adopted Levels.

 $\gamma(^{42}\text{S})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
890 15	890	2^+	0	0^+

Coulomb excitation 1996Sc31Level Scheme