

Coulomb excitation 2009Ob02

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

$^{197}\text{Au}(^{68}\text{Se}, ^{68}\text{Se}')$ with $E(^{68}\text{Se}) = 92$ MeV/nucleon produced through fragmentation of ^{78}Kr primary beam at 150 MeV/nucleon on a ^9Be target. Beam identified by time-of-flight between A1900 FRS and S800 magnetic spectrometer. Measured $E\gamma$, $I\gamma$, scattered particles- γ coin, and cross sections with SeGA array consisting of 17 HPGe detectors for γ rays and two CRDCs, an ionization chamber and a plastic scintillator for scattered particles.

 ^{68}Se Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
854 2	2^+	2.8 ps 4	$B(E2)\uparrow = 0.22$ 3. $T_{1/2}$: deduced by evaluator from $B(E2)$ and adopted γ -ray properties.

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

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.
854 2	854	2^+	0.0	0^+	E2

Coulomb excitation 2009Ob02Level Scheme