

Coulomb excitation 1981Ca01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 125, 201 (2015)	31-Dec-2014

$(\alpha, \alpha'\gamma)$: $E(\alpha)=6-8$ MeV on natural and enriched targets. Measured $E\gamma$, $I\gamma$ using two Ge(Li) detectors positioned at 55° and 125° to the beam direction.

 ^{83}Kr Levels

Relative B(E2) normalized using excitations of the first excited 2^+ levels with known half-lives in ^{78}Kr , ^{80}Kr , and ^{82}Kr , present in the natural target.

E(level)	J^π [†]	Comments
0	$9/2^+$	
9.0	$7/2^+$	
798.0	$5/2^+$	B(E2) $\uparrow=0.015$ 1
1012.0	$11/2^+$	B(E2) $\uparrow=0.038$ 2
1103.0	$(9/2)^+$	B(E2) $\uparrow=0.0084$ 5
1122.0	$13/2^+$	B(E2) $\uparrow=0.045$ 3

[†] From the Adopted Levels.

 $\gamma(^{83}\text{Kr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
789	798.0	$5/2^+$	9.0	$7/2^+$
798	798.0	$5/2^+$	0	$9/2^+$
1012	1012.0	$11/2^+$	0	$9/2^+$
1094	1103.0	$(9/2)^+$	9.0	$7/2^+$
1122	1122.0	$13/2^+$	0	$9/2^+$

Coulomb excitation 1981Ca01Level Scheme