

$^1\text{H}(^{60}\text{Cr},^{60}\text{Cr}'\gamma)$ 2009Ao01,2008Ao01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

2009Ao01, 2008Ao01: E=63 MeV/nucleon beam produced in the primary reaction $^9\text{Be}(^{70}\text{Zn},\text{X})$ with a beam energy of 63 MeV/nucleon. Selected ^{60}Cr nuclei for secondary beam using RIKEN projectile-fragment separator. Liquid hydrogen target part of the system. Measured E_γ , I_γ using an array of 160 NaI scintillators. Scattered particles were identified using a time-of-flight mass analyzer and ΔE -E telescopes. Comparisons with shell-model calculations.

 ^{60}Cr Levels

E(level)	J^π	Comments
0	0^+	
645 4	2^+	Measured excitation cross section=25 mb 7 (2009Ao01). Deformation parameter=0.23 3 (2009Ao01). Additional information 1.
1464 13	(4^+)	

 $\gamma(^{60}\text{Cr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
645 4	645	2^+	0	0^+
819 [†] 12	1464	(4^+)	645	2^+

[†] From 2008Ao01.

 $^1\text{H}(^{60}\text{Cr},^{60}\text{Cr}'\gamma)$ 2009Ao01,2008Ao01Level Scheme