

$^{238}\text{U}(^{64}\text{Ni},\text{X}\gamma)$ 2006Ma11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Caroline D. Nesaraja, Scott D. Geraedts and Balraj Singh		NDS 111, 897 (2010)	12-Jan-2010

2006Ma11 (also **2005Ga56,2005Ga44**): E=400 MeV. Projectile-like nuclei following multi-nucleon transfers were detected with PRISMA magnetic spectrometer. The gamma rays were measured using CLARA array of 25 EUROBALL Clover Ge detectors. Coincidences were measured between gamma rays and Cr fragments.

[Additional information 1.](#)

 ^{58}Cr Levels

A 4588 keV level proposed by **2006Ma11** has been omitted here as the 1371γ has been reassigned according to **2006Zh42**.

E(level)	$J^{\pi\ddagger}$	Comments
0 [#]	0 ⁺	
880.1 ^{# 6}	2 ⁺	
1937.0 ^{# 9}	4 ⁺	J^{π} : not 0 ⁺ from observed anisotropy of 1056.9 γ .
3216.7 ^{# 12}	(6 ⁺)	
3308 ^{† 1}		
3712 ^{† 1}		
3977 ^{† 1}		

[†] Level population proposed by the evaluators from 'Adopted Levels, gammas' based on work of **2006Zh42**.

[‡] As proposed by **2006Ma11** based on yrast band assignment. These are consistent with those in 'Adopted Levels', except for the 4587.7 level which is not given in the 'Adopted Levels'.

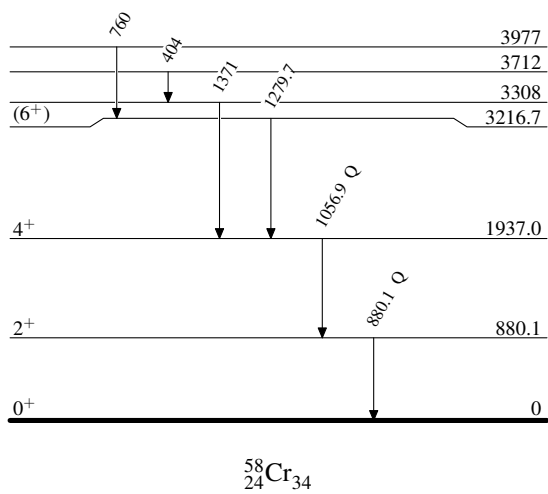
[#] Band(A): g.s. band.

 $\gamma(^{58}\text{Cr})$

E_{γ}	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}	Mult. [†]	Comments
404 ^{‡ 1}	3712		3308			
760 ^{‡ 1}	3977		3216.7	(6 ⁺)		
880.1 6	880.1	2 ⁺	0	0 ⁺	Q	R(anisotropy)=1.28 17.
1056.9 7	1937.0	4 ⁺	880.1	2 ⁺	Q	R(anisotropy)=1.18 17.
1279.7 8	3216.7	(6 ⁺)	1937.0	4 ⁺		
1371 1	3308		1937.0	4 ⁺		E_{γ} : placement by the evaluators based on work by 2006Zh42 . 2006Ma11 placed this γ from a 4588, (8 ⁺) level, but the yrast 8 ⁺ member is most likely at 4680 keV as in 2006Zh42 .

[†] R(anisotropy) suggests $\Delta J=2$, stretched quadrupole.

[‡] Placement by evaluators from 'Adopted Levels, gammas', based on the work of **2006Zh42**. This γ was unplaced in **2006Ma11**.

$^{238}\text{U}(^{64}\text{Ni},\text{X}\gamma)$ 2006Ma11Level Scheme

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