

$^{50}\text{Cr}(\text{n},\text{n}'\gamma)$ **1978Ka21**

		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

1978Ka21: E=0.84-3.97 MeV. Natural target. Measured γ and neutron spectra, σ .

Other: **1977Ko41:** E=1.5-3.0 MeV; measured σ , TOF.

Data taken by evaluators from EXFOR10492.010 which includes information provided by G.P. Couchell (priv. comm., May 1977).

 ^{50}Cr Levels

E(level)	J $^\pi$ [†]	Comments
0	0 ⁺	
783 <i>I</i>	2 ⁺	
(1881)	4 ⁺	E(level): excitation function of 783γ shows evidence of 1881 level being populated.
2921.0 <i>I</i> 4	2 ⁺	

[†] From the Adopted Levels.

 $\gamma(^{50}\text{Cr})$

E $_\gamma$	$\sigma(\theta)$, mb/sr. [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Comments
783 <i>I</i>	99 12	783	2 ⁺	0	0 ⁺	
(1098)		(1881)	4 ⁺	783	2 ⁺	E $_\gamma$: obscured by a strong background line.
2138 <i>I</i>	22 7	2921.0	2 ⁺	783	2 ⁺	$\sigma(\theta)$, mb/sr.: corrected for overlap with double-escape peak of ^{52}Cr 3162 γ .
(2922)		2921.0	2 ⁺	0	0 ⁺	

[†] At E(n)=3.97 MeV (**1978Ka21**).

