

Target isotope: $^{139}_{57}\text{La}$ $I^\pi_{\text{o}} = 7/2^+$ Abundance: 99.910(1) % $S_{\text{p}} = 8140.5(19)$ keV

$^{140}_{58}\text{Ce}(\text{p})$

E_{o}	J^π	Γ_{p}	$\Gamma_{\text{p}'}$	E^*_{analog}	E_{cm}	E^*	Ref.	
[keV]		[keV]	[keV]	[keV]	[keV]	[keV]		
9810(20)	3^-	10.3	2.1	0.0	9740	17880(20)	73La09	
9840(20)	2^-	6.22	6	30	9770	17910(20)	73La09	69TeZY
9847(20)	5^-	12.7	0.23	36	9777	17917(20)	73La09	
9853(20)	1^-	8.62	3.8	44	9783	17923(20)	73La09	
9859(20)	6^-			49	9789	17929(20)	73La09	
9873(20)	4^-	13	0.23	63	9802	17943(20)	73La09	
9914(20)	6^-			104	9843	17984(20)	73La09	
9972(20)	2^-	7.25	6	162	9901	18041(20)	73La09	69TeZY
10082(20)	4^-	0.31	13.1	272	10010	18150(20)	73La09	
10090(20)	7^-			284	10018	18158(20)	73La09	
10131(20)	3^-	2.97	11.4	320	10059	18199(20)	73La09	69TeZY
10132(20)	5^-	0.32	13.8	321	10060	18200(20)	73La09	
10280(20)*	1^-	5.89	11.2	467	10207	18347(20)	73La09	68Sh18
10393(20)	0^-			58	10319	18459(20)	73La09	

Additional data on this isotope can be found in [69TeZY].

* the only isolated resonance; 6 resonances around 9860 keV are overlapping

The fitting procedure involves the following assumptions: Coulomb displacement energy is the same for all sets of levels; spectroscopic factors are from (d,p)-reaction; the result should be considered as estimation.