

$^{140}\text{Ce}(\text{p,p}),(\text{pol p,p})$  IAR [1971Ma55,1968Ve07](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

E=8.8-12.0 MeV ([1971Ma55](#)); 9.2-11.8 MeV ([1968Ve07](#)).

Analog resonances.

Measured:  $\sigma(\theta)$ .

Resonances given below are analogs of  $^{141}\text{Ce}$  levels at 0, 662, 1137, 1369, 1497, and 1739 keV with the same L and comparable S values as in  $^{140}\text{Ce}(\text{d,p})$  from [1967Wi08](#).

 $^{141}\text{Pr}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$\Gamma$ <sup>‡</sup>	L <sup>#</sup>	S <sup>#</sup>
0.0	$5/2^+$			
9751	$7/2^-$	60 keV	3	0.86
10405	$3/2^-$	84 keV	1	0.42
10882	$1/2^-$	91 keV	1	0.28
11100?	$(9/2^-)$		(5)	(0.6)
11251	$(5/2^-)$	77 keV	3	0.27
11493?	$(5/2^-)$	100 keV	(3)	(0.25)

<sup>†</sup> Adopted values.

<sup>‡</sup> Resonance  $\Gamma$  from [1965Vo03](#).

<sup>#</sup> From [1971Ma55](#).