

$^{143}\text{Nd}(n,\alpha),(n,\alpha\gamma)$ 1979AIZR

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

E=thermal (1979AIZR).

E=resonance (100-3000 eV) (1984An09,1981AnZV).

2011GI03, 2009GI02: measured $\sigma_{n,\alpha}$ (mb): 0.120 12, 0.210 21, 0.310 31 for the respective E_n (MeV): 4.00 23, 5.00 16, 6.00 12.

 ^{140}Ce Levels

E(level) [†]	J^π [‡]	$\sigma(n,\alpha)$ μb (1979AIZR)	Comments
0.0	0 ⁺	21.3×10 ³ 2	
1596.5 1	2 ⁺	91.4 30	
1903.3 17	0 ⁺	185.2 40	
2083.5 5	4 ⁺	36.8 20	
2350 2	2 ⁺ ,5 ⁺	41.5 40	E(level): probably doublet 2348 (2 ⁺) and 2350 (5 ⁺).
2412 3	3 ⁺	31.2 30	
2464 3	3 ⁻	22.8 30	
2516 4		21.8 30	
2547 6	1 ⁺	12.8 40	

[†] Values adopted in 1979AIZR.

[‡] Adopted values.