

Table 5.2 from (2002TI10): Energy levels of ${}^5\text{He}$, R -matrix prescription ^a

E_x (MeV)	$J^\pi; T$	Γ_{cm} (MeV)	Γ_n (MeV)	Γ_d (MeV)	Γ_{n^*} (MeV)
g.s. ^b	$\frac{3}{2}^-; \frac{1}{2}$	0.963	0.963	0	0
6.17	$\frac{1}{2}^-; \frac{1}{2}$	20.61	20.61	0	0
16.66	$\frac{3}{2}^+; \frac{1}{2}$	0.889	0.691	0.198 ^c	
19.97	$\frac{3}{2}^-; \frac{1}{2}$	3.49	0.127	2.85 ^d	0.508
20.32	$\frac{1}{2}^+; \frac{1}{2}$	6.64	0.273	5.08 ^e	1.29
20.48	$\frac{7}{2}^+; \frac{1}{2}$	4.43	0.066	4.37 ^f	
21.67	$\frac{3}{2}^+; \frac{1}{2}$	6.87	0.156	6.72 ^f	
21.77	$\frac{5}{2}^+; \frac{1}{2}$	6.58	0.247	6.33 ^f	
23.52	$\frac{5}{2}^+; \frac{1}{2}$	25.21	0.028	25.18 ^f	
24.10	$\frac{1}{2}^-; \frac{1}{2}$	57.3	0.177	44.8 ^d	12.3
24.58	$\frac{5}{2}^-; \frac{1}{2}$	5.56	0.020	5.54 ^g	

^a See the Introduction for a discussion of the two prescriptions. The prescription used here is defined in (1992TI02). The channel radii are: $a_n = 3.0$ fm, $a_d = 5.1$ fm.

^b Situated 985 keV above the $n + \alpha$ threshold.

^c Entirely ${}^4S(d)$.

^d Primarily ${}^2P(d)$.

^e Primarily ${}^2S(d)$.

^f Primarily ${}^4D(d)$.

^g Primarily ${}^4P(d)$.