

$^{93}\text{Nb}(^3\text{He},\alpha)$ **1977Mo10**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

$J^\pi(^{93}\text{Nb})=9/2^+$.

$E(^3\text{He})=19.5$ MeV, FWHM=30 keV, $\theta=15^\circ-70^\circ$. DWBA analysis of $\sigma(\theta)$.

 ^{92}Nb Levels

E(level) [#]	L [†]	C ² S [‡]	E(level) [#]	L [†]	C ² S [‡]	E(level) [#]	L [†]	C ² S [‡]
0	2	0.74	2039	4	0.04	3363	4	0.10
132	2	0.38	2146	4	0.11	3427	4	0.18
277	2	0.21	2209	(4)	0.07	3515	4	1.88
350	2	0.25	2243	4	0.08	3637	4	0.76
479	&	&	2293	4	0.13	3686	4	0.20
501	&	&	2403	(2+4)	0.03+0.04	3753	4	0.42
1085	4	0.02	2430	(4)	0.03	3828		
1338 [@]			2509	4(+2)	0.08	3875		
1402	4	0.04	2603	4	0.18	3882		
1524			2750	4	1.09	3942		
1604	(2)	0.04	2958	4	3.75	4032		
1648	4	0.04	3063 [@]	4	1.42	4172		
1676			3127	4	0.47	4285		
1761	4	0.02	3225	(4)	0.18	4355		
1828	(4)	0.03	3291	4	0.20			

[†] From DWBA analysis of $\sigma(\theta)$.

[‡] Neutron pickup configuration is assumed to be $2d_{5/2}$ for L=2 transitions and $1g_{9/2}$ for L=4 transitions. Values are C²S normalized to yield same E≤501 multiplet strength as **1971Bh01** obtain in $^{93}\text{Nb}(d,t)$. [No finite range corrections; see comment on C²S under $^{93}\text{Nb}(p,d)$].

[#] Uncertainty not stated. $\Delta E \leq 20$ keV assigned by evaluator in Adopted Levels when comparing data from different reactions or when level has been reported in this reaction alone. Reported E(level) lower than adopted value by 0 to 9 keV for E(level)≤1671, multiplets excepted.

[@] Doublet.

& L=2 and C²S=0.36 for 479+501 doublet.