

$^{226}\text{Ra}(\alpha, \alpha)$ 1986Lo01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	A. K. Jain (a), R. Raut (b), J. K. Tuli		NDS 110, 1409 (2009)	1-Dec-2008

$E(^3\text{He}, \alpha) = 30$ MeV.

α spectra were taken at $\theta = 27.5^\circ$, 45° , and 70° . See 1986Lo01 for listed cross sections measured at $\theta = 45^\circ$.

For deduced nuclear structure factors see 1986Lo01.

 ^{225}Ra Levels

E(level) [†]	J^π [‡]	Comments
34	$5/2^+$ & $3/2^+$	1/2[631] band members.
106	$7/2^+$ & $9/2^+$	1/2[631] band members.
142		
216		
241		
274		Orbital from $J=15/2^-$ shell plus $7/2^+$, 5/2[633] state (1986Lo01).
318	$9/2^+$	5/2[633] band member.
388	$11/2^+$	5/2[633] band member.
448		
483		
538		Orbital from $J=15/2^-$ shell state (1986Lo01).
612		$L \geq 6$ (1986Lo01).
814		
892	$1/2^-$	1/2[501] band member.
955	$5/2^-$ & $3/2^-$	1/2[501] band members.
1001		
1024		
1068		
1095		
1153		
1184		
1223	$5/2^-$	5/2[503] state.
1272		
1343		
1377		
1441		
1486		
1872		
1912		
1972		
2138	$13/2^+$ [#]	3/2[606] band member.

[†] Uncertainties are ≈ 10 keV; resolution was 23 keV (FWHM).

[‡] From (d,t) work of 1983Ny01, ^{229}Th α decay, and previous evaluation by 1979To11, except where otherwise noted.

[#] From comparison of ($^3\text{He}, \alpha$) cross sections with (d,t) cross sections measured by 1983Ny01.