

$^{194}\text{Pt}(^3\text{He},\alpha)$ 1985Th02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

$E(^3\text{He})=50$ MeV, $\theta=5^\circ$ to 45° (2.5° intervals); enriched ($>98\%$) ^{194}Pt targets; measured $E(\alpha)$ (mag spect with two-dimensional detector system, $\text{FWHM}\approx 35$ keV), differential cross sections, angular distributions (high-L transfers favored); interpreted levels in terms of quasiparticle-core coupling models.

 ^{193}Pt Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}$	$L^\ddagger$	$\text{Slj}^\#$	Comments
15 10	$5/2^-$	4.33 d 3	3,4	1.31	$T_{1/2}$: From Adopted Levels.
150 10	$13/2^+$		6	6.37	
331 10	$(13/2^+)$		5,6	1.21	
420 10	$5/2^-$		3,4	0.92	
484 10					
592 10	$7/2^-$		3	0.95	
667 10	$13/2^+$		6	0.84	
732 10	$7/2^-$		3,4	0.38	
819 10	$7/2^-$		3,4	0.29	
1021 10	$13/2^+$		5,6	1.73	
1095 10	$7/2^-$		3,4,5	0.25	
1219 10	$7/2^-$		3,4	0.25	
1337 10	$13/2^+$		6	0.67	
1442 10					
1561 10			3,4		
1668 10	$9/2^-$		4,5	0.61	
1744 10	$7/2^-$		3	0.44	
1913 10					
2337 10					

† J^π assumed to extract Slj.

‡ From DWBA analysis of angular distributions.

$^\#$ $(d\sigma/d\Omega)(\text{exp})/N$ $(d\sigma/d\Omega)(\text{DWBA})$, $N=34$.