^{195}Pt(p,t) **1980Ro07**

History

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

$J^\pi(^{195}\text{Pt})=1/2^-$.

E(p)=25 MeV, θ=5° to 55°; Pt metal targets enriched to 97.28% in ^{195}Pt; measured E(level) (mag spect, FWHM=16-18 keV), differential cross sections, angular distributions.

^{193}Pt Levels

E(level)	$J^{\pi\dagger}$	$T_{1/2}$	$L^\ddagger$	$\Sigma\,\sigma(\theta)^\#$	Comments
0.0	$1/2^-$		0	100	
1.6[@]				12[a]	
14.3[@]				6[a]	
117 4				1.9	
149.8?[@&]	$13/2^+$	4.33 d 3			$J^\pi,T_{1/2}$: From Adopted Levels.
188 4	$3/2^-$		2	2.7	
232 4	$(5/2)^-$		2	4.9	
271 4	$3/2^-$		2	1.9	
307? 4				0.15	
340 4				2	
425 4				4.6	
462 4				2	
492 4	$(5/2)^-$		2	0.7	
531 4				1.8	
597 4				4.2	
622 4				0.9	
642 4				1.2	
701 4				0.5	
728 4				1.5	
753 4				3.3	
828 4				2.1	
841 4	$3/2^-$		2	4.3	
922 4	$3/2^-$		2	3	
984 4				1.1	
1053 8				2.5	
1091 8				1	
1182 8	$3/2^-$		2	1	
1217 8				1.9	
1243 8				0.8	
1265 8				2.9	
1333 8				2.8	
1364 8				1.9	
1425 8				2	
1457 8	$1/2^-$		0	3	
1534 8	$1/2^-$		0	1.4	
1557 8	$1/2^-$		0	3.5	
1585 8				0.6	
1610 8				0.9	

$\dagger$ From 1980Ro07; deduced from angular distributions and cross sections, relative to those for corresponding levels in ^{194}Pt(p,d), (d,t), except otherwise noted.

$\ddagger$ Inferred from angular distributions.

$\#$ Relative summed cross-sections for the seven angles between 5° and 55° observed in the experiment.

$@$ Rounded off value from Adopted Levels; level not well resolved in ^{195}Pt(p,t).

$^{195}\text{Pt}(p,t)$ 1980Ro07 (continued)

^{193}Pt Levels (continued)

[&] Population uncertain; peak overlaps that for ^{192}Pt g.s. from contaminant.
[a] Estimated from spectrum at $\theta=15°$ assuming the angular distribution observed for $J^{\pi}=5/2^{-}$ states.