

$^{196}\text{Pt}(^3\text{He},\alpha)$ 1985Th02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

E=50 MeV.

Measured $\sigma(E\alpha,\theta)$ with QMG/2 magnetic spectrograph (FWHM=35 keV) in steps of 2.5° , $\theta=5-45^\circ$. Compared with current quasiparticle-core coupling models. $\sigma(E\alpha,\theta)$ DWBA calculations.

See also 1983ThZY.

 ^{195}Pt Levels

E(level) [#]	J ^{π} [@]	L [†]	C ² S [‡]	Comments
131 10	5/2 ⁻	3	1.21	C ² S: $d\sigma/d\Omega(\theta=20^\circ)=299 \mu\text{b/sr}$.
259 10	13/2 ⁺	6	5.49	C ² S: $d\sigma/d\Omega(\theta=20^\circ)=1577 \mu\text{b/sr}$.
432 10				C ² S: $d\sigma/d\Omega(\theta=20^\circ)=34 \mu\text{b/sr}$. J=(17/2 ⁺).
506 10	(5/2) ⁻	3	0.46	
558 10		5,6	0.19	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=47 \mu\text{b/sr}$.
614 10		3,4	0.62	C ² S: assuming J=7/2 ⁻ . $d\sigma/d\Omega(\theta=20^\circ)=145 \mu\text{b/sr}$.
789 10		6	2.79	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=763 \mu\text{b/sr}$.
893 10		4,5	0.33	C ² S: assuming J=9/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=141 \mu\text{b/sr}$.
960 10	(7/2) ⁻	3,4	0.36	C ² S: assuming J=7/2 ⁻ . $d\sigma/d\Omega(\theta=20^\circ)=134 \mu\text{b/sr}$.
1043 10		5,6	2.21	C ² S: assuming J=9/2 ⁻ . $d\sigma/d\Omega(\theta=20^\circ)=265 \mu\text{b/sr}$.
1107 10				C ² S: $d\sigma/d\Omega(\theta=20^\circ)=72 \mu\text{b/sr}$.
1306 10		5,6	0.59	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=153 \mu\text{b/sr}$.
1378 10		6	1.58	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=428 \mu\text{b/sr}$.
1505 10				C ² S: $d\sigma/d\Omega(\theta=20^\circ)=100 \mu\text{b/sr}$.
1683 10		6	0.27	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=65 \mu\text{b/sr}$.
1785 10		3,4	0.41	C ² S: assuming J=5/2 ⁻ . $d\sigma/d\Omega(\theta=20^\circ)=122 \mu\text{b/sr}$.
1911 10		3,4	0.41	C ² S: assuming J=9/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=199 \mu\text{b/sr}$.
2128 10		6	1.43	C ² S: assuming J=13/2 ⁺ . $d\sigma/d\Omega(\theta=20^\circ)=369 \mu\text{b/sr}$.
2291 10				C ² S: $d\sigma/d\Omega(\theta=20^\circ)=329 \mu\text{b/sr}$.
2437 10				C ² S: $d\sigma/d\Omega(\theta=20^\circ)=253 \mu\text{b/sr}$.

[†] From $\sigma(E\alpha,\theta)$ DWBA fits.

[‡] From $\sigma(E\alpha,\theta)$ DWBA calculations. Comparing the S values in (d,t) reactions.

[#] Energies normalized to known 259 level.

[@] From S extractions and L-transfer value.