

$^{197}\text{Au}(\text{pol d,d}),(\text{d,d}')$ 1970Sh12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei		NDS 104, 283 (2005)	1-Jan-2002

Other: [1987Da18](#), [1987He25](#), [1987Ba27](#), [1986Go18](#), [1985Se13](#), [1984II01](#), [1980Ma10](#), [1980De44](#).

[1962Jo05](#): E=15 MeV.

[1970Sh12](#): E=12.1 MeV; magnetic spectrograph resolution=8 to 12 keV (FWHM); cross sections determined at $\theta=80^\circ, 95^\circ, 125^\circ, 150^\circ$.

[1986Go18](#): E(pol d)=9, 10.5, 12 MeV; measured $d\sigma(\theta_n, \theta_p, E(p))$; asymmetry following breakup, tensor analyzing power vs θ_n, θ_p, Φ . Comparison with DWBA.

[1980Ma10](#): E(pol d)=52 MeV; measured $d\sigma(\theta)$; deduced optical model parameters.

[1980De44](#): E(pol d)=1.4-2.4 MeV; measured $d\sigma(\theta, E)$, asymmetry vs θ, E .

 ^{197}Au Levels

E(level)	$\sigma(\theta)$ ($\mu\text{b/sr}$) [†]	E(level)	$\sigma(\theta)$ ($\mu\text{b/sr}$) [†]
0	15000	1231	6.3
77	100	1263	4.0
268	81	1370	5.7
279	245	1380	3.8
547	385	1405	5.5
583	2.6	1478	1.7
735	8.6	1488	3.8
857	13.3	1584	6.1
882	‡	1809	4.2
889	5.2‡	1820	2.7
937	7.3	1905	4.7
948	3.4	2244	7.9
1219	3.3		

[†] Values at 150° ; uncertainty <10%.

‡ Doublet.