

$^{197}\text{Au}(\text{n},\text{n}),(\text{n},\text{n}')$     **1968Ba06**

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

Others: [1965De11](#), [1986Ha31](#), [1985Ha02](#), [1984Br12](#).

**1968Ba06**: E=0.13-1.5 MeV, measured inelastic cross sections (mb/sr,  $\theta=90^\circ$ ) via tof spectra for incident  $E(n) \leq 1.5$  MeV.

See [1971Ba29](#) for complimentary ( $n,n'\gamma$ ) measurements. Consistency observed between level energies, and differential n-cross section compared with  $I\gamma$  deexcitation at incident n-energies.

Deduced optical model parameters (E=14.6 MeV), ([1986Ha31](#),[1985Ha02](#)).

 $^{197}\text{Au}$  Levels

Multiple J values assigned from Hauser-Feshbach ([1968Ba06](#)) analysis of  $\sigma(n,n')$  results ([1968Ba06](#)).

Uncertainty=10 keV ([1968Ba06](#)).

E(level)	E(level)	E(level)	E(level)
0	511 10	940 10	1220 10
77 10	558 10	960? 10	1243? 10
268 <sup>†</sup> 10	740 10	1055 10	
279 <sup>†</sup> 10	855 10	1120 10	
409 10	888 10	1150 10	

<sup>†</sup> Unresolved ([1968Ba06](#)).