

$^{108}\text{Pd}(\text{d},\text{t})$     **1970Di05**

Type	Author	History		Literature Cutoff Date
		Citation		
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)		1-Mar-2008

E(d)=17 MeV.

Other (d,t): E=15 MeV ([1963Cu02](#)) s.For study of deeply bound neutron-hole states via (d,t) E=50 MeV, see [1978ScZP](#).

Magnetic spectrograph resolution: FWHM=8-10 keV.

 $^{107}\text{Pd}$  Levels

Spectroscopic factors extracted via (d,p),(d,t) reactions are compared with neighboring isotopes and isotones and with Nilsson-model predictions; see [1975Re07](#).

 $\Delta E$ : Uncertainties not given.

E(level)	L <sup>‡</sup>	S@	E(level)	L <sup>‡</sup>	S@	E(level)	L <sup>‡</sup>	S@
0.0	2	1.39#	670	2	0.44#	1218	2	0.097,0.07 4
115	0	0.37	697	0	0.066	1267	2	0.041#
214	5	1.67	759	2	0.02	1402&	2	
301	2	0.16#	781	1	0.038	1510&	0	
312	(4)	2.78	809	2	0.15#	1589&	2	
367	(4)	1.82	892	0	0.044	1632&	2	
381	2	0.57	1029	2	0.091,0.07	1689&	0	
412	0	0.15	1074	2	0.20#	1753&		
471	2	0.39	1120	0	0.069			
567	2	0.32#	1167	0	0.008			

† Uncertainties not given.

‡ Deduced from triton angular distributions at 5 angles ( $\theta=10^\circ-35^\circ$ ) compared with DWBA calc.# J=5/2 inferred from S(d,t)/S(d,p)=6.6-36,  $^{107}\text{Rh}$  decay log ft values and  $\gamma$  to  $1/2^+$ .

@ S obtained if J=11/2 for L=5, J=7/2 for L=4, J=1/2 for L=1, and J=3/2 for L=2, unless otherwise noted. Pairs of values correspond to J=L-1/2,L+1/2, respectively.

& (d,t) excitations >1.3 MeV are from [1963Cu02](#) with  $\Delta E=100$ .