

$^{192}\text{Os}(\text{t,p})$ [1978FI02](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 177, 1 (2021)	3-Sep-2021

[1978FI02](#) (also [1979Ci05](#)): E=15 MeV triton beam was produced from the FN Van de Graaff accelerator at the Los Alamos Scientific Laboratory. Target was 99.06% enriched ^{192}Os with a thickness of 150-200 $\mu\text{g}/\text{cm}^2$. Reaction products were momentum-analyzed with a Q3D magnetic spectrograph (FWHM=10-15 keV). Measured $\sigma(\theta)$, $\theta=12^\circ$ to 60° (lab). Deduced levels, J, π , L-transfers from DWBA analysis. Comparisons with available data. [1979Ci05](#) compared 2-neutron strengths with the calculations using the IBA model.

[Additional information 1.](#)

 ^{194}Os Levels

E(level)	L [†]	$d\sigma/d\Omega(\mu\text{b}/\text{sr})^{\ddagger}$	Comments
0	0	264	
218 5	(2)	15	
601 5	(4)	20	
655 5	(2)	9.5	
696 5	0	15	
1063 5		1.7	
1311 5		11	E(level): probably a doublet.
1466 5			
1540 8	0	16	
1668 8		15	
1737 8		18	
1835 8	0	28	
1878 8		15	
1956 8		23	
2118 10		15	
2168 10		6.9	

[†] From DWBA analysis of experimental differential cross sections ([1978FI02](#)). Only L=0 states give distinctive unambiguous angular distribution and for other states, other L values are also possible other than the quoted one ([1978FI02](#)).

[‡] At 30° ([1978FI02](#)).