

$^{192}\text{Pt}(n,\gamma)$  E=res **1968Sa13**

Type	Author	History	Citation	Literature Cutoff Date
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**1968Sa13:** E(n)=47 eV, 54 eV; natural Pt targets; measured  $E\gamma$ ,  $I\gamma$  for primary  $\gamma$ 's (Ge(Li), FWHM=5 keV at 1 MeV).

**1969De09:** from neutron time-of-flight measurements in transmission and absorption experiments, observed five resonances, whose energies and widths, in eV and meV respectively, are: 47, 47 2; 54, 17 1; 130, 225 12; 145, 170 10; 389, 308 27.

 $^{193}\text{Pt}$  Levels

E(level)	$J^\pi$ †	Comments
0.0	$1/2^-, 3/2^-$	$J^\pi$ : adopted $1/2^-$ .
186	$1/2^-, 3/2^-$	$J^\pi$ : adopted $3/2^-$ .
440?		
461?		
544	$1/2^-, 3/2^-$	
700	$1/2^-, 3/2^-$	
1591	$1/2^-, 3/2^-$	
S(n)+x‡	$1/2^+$	E(level): x =E(res)=47 eV and 54 eV. $J^\pi$ : $1/2^+$ for both resonances ( <b>1969De09</b> ).

† From population by E1  $\gamma$  from  $J^\pi=1/2^+$  resonances.

‡ Adopted S(n)=6262.5 23 (**2017Wa10**). From  $E\gamma$ (to g.s.)=6247 (**1968Sa13**) it appears that there is a calibration error of  $\approx -13$  keV in the data of **1968Sa13**.

 $\gamma(^{193}\text{Pt})$ 

$E_\gamma$	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.†
4656	S(n)+x	$1/2^+$			E1
5547	S(n)+x	$1/2^+$			E1
5703	S(n)+x	$1/2^+$			E1
5786‡#	S(n)+x	$1/2^+$			
5807‡#	S(n)+x	$1/2^+$			
6061	S(n)+x	$1/2^+$	700	$1/2^-, 3/2^-$	E1
6247	S(n)+x	$1/2^+$	544	$1/2^-, 3/2^-$	E1

† Inferred from comparison of radiative widths with those for known E1 transitions in other Pt isotopes.

‡ Existence of  $\gamma$  uncertain.

# Placement of transition in the level scheme is uncertain.

$^{192}\text{Pt}(n,\gamma) \text{E=res}$  1968Sa13Level Scheme