^{188}Os(α,α'),(p,p') 1978Bu21,1976Ba06,1971Kr10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley	NDS 150, 1 (2018)	1-Feb-2018

1978Bu21: Eα=24 MeV. Enge split-pole spectrograph, FWHM=25 keV, angular distribution data from 60° to 140°.

1976Ba06: Eα=13-24 MeV. Split-pole spectrograph and position- sensitive detectors, FWHM=40 keV, excitation functions measured at θ(lab)=130°.

1971Kr10: E(p)=16 MeV. Si(Li) detectors, FWHM=40 keV, angular distribution data from 50° to 165°, absolute cross sections.

^{188}Os Levels

E(level)	J$^{\pi}$[†]	Comments
0	0$^+$	
155	2$^+$	β_2(Coulomb)=0.191, β_2(nuclear)= 0.132, 0.149, 0.145 (1976Ba06) from interference data. β_2(Coulomb)=0.22 (1971Kr10) from $\sigma(\theta)$ data. β_2=0.218 (1976Ba06) from E(α)=13 MeV data.
478	4$^+$	β_4(Coulomb)=−0.031, β_4(nuclear)=−0.080, −0.028 (1976Ba06) from interference data. β_4=−0.237 (1976Ba06) from E(α)=13 MeV, sub-Coulomb data.
633	2$^+$	
940	6$^+$	
965	4$^+$	
1280	4$^+$	1978Bu21 analyze $\sigma(\theta)$ and absolute cross section data by assuming the population of this level through successive E2 excitations, direct E4 excitation and coherent mixture of both mechanisms. Agreement was obtained by considering a significant contribution from direct E4 excitation. β_4=0.027 (1978Bu21).
1414	(3$^-$)	

[†] From Adopted Levels.