

$^{192}\text{Os}(\text{p},\text{p}')$, (pol p,p') 1987Ic04,1989Ba54

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

Others: 1971Kr10, 1988Ic02.

1987Ic04 (also 1986Ic02): E(p)=65 MeV, polarized proton beam; osmium targets enriched to 99.40% in ^{192}Os ; measured E(level) (mag spect, FWHM=20-26 keV), cross sections, analyzing powers, angular distributions (10° to 70° , with 1° steps at forward angles, 2° steps at backward angles); deduced quadrupole and hexadecapole transition strengths to γ vibrational band; used coupled channels analysis to interpret data.

1989Ba54 (also 1985Ba64): E(p)=134.5 MeV, typical polarization=0.70-0.80; osmium oxide targets enriched to 99.03% in ^{192}Os ; measured E(level) (mag spect, position-sensitive proportional counter, FWHM=80-100 keV), differential cross sections, analyzing powers; used coupled channels analysis to interpret data; described E2 and E4 properties of ^{192}Os (one-step processes shown to dominate).

 ^{192}Os Levels

E(level) [†]	E4 matrix element [‡]	Comments
0.0		
206		
489		
580	-1.96×10^3 11	
910	1.16×10^3 29	
1070	1.08×10^3 27	1985Ba64, 1989Ba54 suggest that level is lowest g-boson intruder state (single g-boson coupled to a 0^+ system of s and d bosons). E(level): from 1987Ic04.
1340		

[†] From 1989Ba54, except where noted.

[‡] For excitation (e fm⁴) (1989Ba54). Other: 1987Ic04.