Coulomb excitation   1973Ha07,1977Ro08,1977Ro26

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 791 (2006)	15-Sep-2005

1973Ha07 (α,α'), $E(\alpha)$=15 MeV.
1977Ro08 (α,α'), $E(\alpha)$=16.9 MeV, target:>99% enriched ^{176}Hf.
1977Ro26 (α,α'), $E(\alpha)$=13.5, 14.0 MeV, target:>99% enriched ^{176}Hf.
Measured scattered α's, deduced B(E2).
Others: 1976Ha26, 1961Ha21, 1955He64.

^{176}Hf Levels

E(level)[†]	J^{π}[‡]	$T_{1/2}$	Comments
0.0	0^+		
88	2^+	1.47 ns 4	B(E2)↑=5.21 5
			$T_{1/2}$: from B(E2) and adopted α for 88γ. B(E2): weighted average of 5.19 6 (1977Ro08), 5.27 25 (1961Ha21), and 5.78 23 (1973Ha07). Other: B(E2)=5.29 10 from muonic atom (1984Ta10). g-factor=0.266 21 $\gamma(\theta,H)$ (1968Be04).
290	4^+		Measured E4 matrix element of 0.26 12 or -0.76 15. B(E4)=0.068 63, using 0.26 12, B(E4)=0.58 23, using -0.76 15.
1227	2^+	0.8 ps 1	$T_{1/2}$: from B(E2)=0.029 3 (weighted average of 0.031 3 (1977Ro08) and 0.025 5 (1973Ha07)) and adopted α and branching for 1227γ.
1313	3^-		B(E3)=0.093 29 (1977Ro08).
1341	2^+	0.29 ps 3	$T_{1/2}$: from B(E2)=0.119 8 (1977Ro08) and adopted α and branching for 1341γ. Other value: B(E2)=0.075 6 (1973Ha07).

[†] From 1973Ha07.
[‡] From Adopted Levels.