^{179}Hf(d,p)   **1972Za04**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

J^π(^{179}Hf)=9/2$^+$.

E(d)=12 MeV. Measured $\sigma(\theta)$ at θ=25°, 35°, 45°, 55°, and 65° using Browne-Buechner broad-range magnetic spectrograph and nuclear track emulsion plates; DWBA analysis.

Additional information 1.

^{180}Hf Levels

E(level)†	$J^{\pi\ddagger}$	E(level)†	$J^{\pi\ddagger}$	E(level)†	$J^{\pi\ddagger}$	E(level)†	$J^{\pi\ddagger}$
0.0$^\#$	0$^+$	1408 2		1824^c 2	(3$^-$)	2143 4	
95$^\#$	2$^+$	1480$^\&$ 1	5$^-$	1861 3		2170 4	
301$^\#$	4$^+$	1508 2		1889 3		2213 3	
640$^\#$	6$^+$	1525 4		1908^b 5	(7$^-$)^f	2238 3	
1090$^\#$ 1	8$^+$	1609^a 1	5$^-$	1926^c 4	(4$^-$)	2271^e 3	8$^-$
1146$^@$ 1	8$^-$	1650 4		1971 3			
1197 3		1689^b 2	6$^-$	2023^d 2	(1$^-$)		
1371$^\&$	4$^-$	1787^a 2	6$^-$	2074^d 2	(2$^-$)		

† Uncertainties are given as the standard deviation of the excitation energy at different angles.

‡ Spin, band, and quasiparticle configuration assignments are based on comparison between experimental and theoretical relative level intensity populations and on rotational structure. Discrepancies with assignments given in Adopted Levels are indicated.

$^\#$ K^π=0$^+$ g.s. rotational band member.

$^@$ K^π=8$^-$ band member. Probable configuration=π7/2[404]+π9/2[514].

$^\&$ K^π=4$^-$ band member. Probable configuration=9/2[624]−1/2[510].

^{a} K^π=5$^-$ band member. Probable configuration=9/2[624]+1/2[510].

^{b} K^π=6$^-$ band member. Probable configuration=9/2[624]+3/2[512].

^{c} K^π=3$^-$ band member. Probable configuration=9/2[624]−3/2[512].

^{d} K^π=1$^-$ band member. Probable configuration=9/2[624]−7/2[503].

^{e} K^π=8$^-$ band member. Probable configuration=9/2[624]+7/2[503].

^{f} J^π=(4$^+$) in the Adopted Levels.