Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. C. Batchelder and A. M. Hurst, M. S. Basunia	NDS 183, 1 (2022)	1-Mar-2022

Q(β^-)=2180 *80*; S(n)=6180 *80*; S(p)=9750 *SY* 2021Wa16
ΔS(p)=300 (syst) 2021Wa16.
Production: 60 MeV/nucleon ^{18}O bombardment of natural W followed by radiochemical separation. Identification: from growth and decay of 737.5γ and 739.2γ (in ^{186}W) produced in β^- decay of ^{186}Ta daughter (1998Yu02).
Mass measurement and identification of high-spin isomer using Schottky mass spectrometry technique (2012Re19, 2010Re07).

^{186}Hf Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	2.6 min *12*	%β^-=100 $T_{1/2}$: from growth and decay of 737.5γ(^{186}W) from ^{186}Ta daughter's β^- decay (1998Yu02,1999Ya10).
2968 *43*		>20 s	%β^-=?; %IT=? E(level): From measured mass difference between the isomer and g.s. (2012Re19). J^π: A $K^\pi=17^+$, 4 quasi-particle state with configuration $\pi^2(7/2^+[404], 9/2^-[514])\otimes\nu^2(7/2^-[503], 11/2^+[615])$ calculated at 2.269 MeV is tentatively associated with this isomer by (2012Re19). $T_{1/2}$: Measured value in 2012Re19 for bare ^{186}Hf ion. Number of ions detected=2 (2010Re07) and 8 (2012Re19).