Muonic atom   1970Hi03

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

Others: 1966Ba04, 1968Ba36, 1968Be24, 1968Ga26, 1974Ba77, 1974Wa22.
1970Hi03: negative μ beam from Nevis cyclotron; Ge(Li) detector; 94.3% ^{184}W target; measured K(2p-1s) and L(2d-2p) muonic
    x-ray spectra (energy and intensity) and isotope shifts; deduced parameters of nuclear charge distribution, B(E2) from intrinsic Q.

^{184}W Levels

E(level)	$J^{\pi\dagger}$	$T_{1/2}$	Comments
0.0	0^+		
111	2^+	1.19 ns 4	B(E2)↑=3.91 10 (1970Hi03)
			$T_{1/2}$: from B(E2) and adopted α=2.57.
			Isomer shift studied (1968Be24,1968Ga26,1974Ba77,1974Wa22).
			$\delta<r^2>/<r^2>$ consistent with zero (1968Be24,1968Ba36,1968Ga26,1974Ba77,1974Wa22). x-rays
			studied, isotope shift, and parameters of deformed Fermi charge distribution deduced (1970Hi03).
			E(level): rounded value from Adopted Levels.

† From Adopted Levels.