Adopted Levels

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 125, 201 (2015)	31-Dec-2014

S(p)=1775 *SY*; Q(α)=−2052 *SY* 2012Wa38
ΔS(p)=499; ΔQ(α)=566 (2012Wa38).
S(2p)=2868 syst *433*, Q(εp)=9968 syst *448* (2012Wa38).
1997Re12, 1999Ja02: ^{83}Mo isotope produced in fragmentation of a ^{92}Mo beam at 60 MeV / nucleon on natural Ni targets. Reaction products separated with the LISE3 spectrometer and identified by TOF-ΔE-E measurements using a four element Si detector telescope.
2002StZZ, 2001Ki13, 2000StZU: ^{83}Mo isotope produced in fragmentation of a ^{112}Sn beam at 1 GeV / nucleon on a ^{9}Be target. Reaction products separated by the fragment separator (FRS) and identified using TOF, ΔE, and fragment trajectories. Isotopes implanted into four double sided Si strip detectors sandwiched between two stacks of ten Si detectors each. Measured $T_{1/2}$.

^{83}Mo Levels

E(level)	$T_{1/2}$	Comments
0.0	6 ms *+30−3*	%ε+%β^+=100 $T_{1/2}$: from implant-β(t) correlations (2001Ki13). Data analyzed with the maximum likelihood method taking into account three decay generations and applying background subtraction. Only one decay event of ^{83}Mo was observed.