Adopted Levels

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1041 (2013)	1-Mar-2012

Q(β^-)=−3185 *SY*; S(n)=7407 *SY*; S(p)=2932 *SY*; Q(α)=7573 *8* 2012Wa38
2012Wa38: Estimated ΔQ(β^-)=32, ΔS(n)=134, ΔS(p)=32.

Calculations:
Ground state properties: 1997Mo25, 1995Mo29, 2004Pa40.
Single-particle Nilsson levels: 1994Cw02, 2004Pa40.
Half-lives for alpha and beta decay: 1997Mo25.

1994Cw02 have calculated the following single-particle level sequence: g.s., 1/2[521]; 0.29 MeV, 7/2[514]; 0.44 MeV, 7/2[633]; 0.51 MeV, 9/2[624]; 0.83 MeV, 3/2[521].

^{253}Md Levels

Cross Reference (XREF) Flags

A ^{257}Lr α decay
B ^{253}No ε decay

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0	(7/2$^-$)	6 min *+12−3*	AB	%ε+%β^+≈99.3; %α≈0.7 (2005He27) J$^\pi$: configuration=7/2[514] (2011An13) based on ε decay to ^{253}Fm, log *ft*≈5.3. %α: α decay of ^{253}Md not observed following: Es(α,xn) (1971Ho16); ^{243}Am(^{13}C,3n) ion chem (1992Ka08). T$_{1/2}$: 6.45 min *+11.6−3.6*, the disintegration constant determined from the growth of daughter, ^{253}Fm (1992Ka08).
60[†] *30*			A	
≥1000			B	Strong γ rays are observed at 394.2 and 453.5 keV, in coin with Md K x rays and conversion electrons between 40 to 400 keV. The two γ rays are not in mutual coincidence (2011An13).

[†] From ^{257}Lr α decay.