^{251}Md IT decay (1.4 s) 2021Go26

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. Morse	NDS 189,111 (2023)	23-Sep-2022

Parent: ^{251}Md: E≥844; J^{π}=(23/2$^+$); $T_{1/2}$=1.4 s *3*; %IT decay≈100

^{251}Md-J^{π}: Estimated based on tentatively observed feeding to the ground-state band up to spin 21/2.

^{251}Md-E: Estimate based on γ-ray and conversion-electron sum energy.

2021Go26: Performed decay spectroscopy on ^{251}Md. Discovered isomeric state with excitation energy of at least 844 keV. Measured α, γ, ce.

^{251}Md Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0	(7/2$^-$)	4.28 min *12*	
≥844	(23/2$^+$)	1.4 s *3*	%IT≈100 %IT: No other decay mode has been observed.

γ(^{251}Md)

2021Go26 notes that the transitions at 216 *1*, 265 *1*, and 290 *1* are similar to transitions observed in the ground-state 7/2$^-$ band in 2020Br08. However, the authors refrain from making a definite assignment.

E_γ	E_i(level)	Comments
^{x}31 *2*		
^{x}44.5 *10*		
^{x}53 *2*		
^{x}64 *1*		Contaminated by intense background line at 63 keV.
^{x}71.5 *10*		Contaminated by intense background line at 72 keV.
^{x}84 *2*		
^{x}97 *1*		
^{x}108 *2*		
^{x}168 *2*		
^{x}216 *1*		
^{x}233.5 *10*		
^{x}265 *1*		
^{x}290 *1*		
^{x}317 *1*		
^{x}390 *1*		
^{x}468 *1*		

^{x} γ ray not placed in level scheme.