^{246}Md $\varepsilon+\beta^+$ decay (4.4 s) 2010An08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 198,449 (2024)	31-Jul-2022

Parent: ^{246}Md: E=0+y; $T_{1/2}$=4.4 s *8*; Q(ε)=5920 *syst*; %ε+%β^+ decay>77

^{246}Md-$T_{1/2}$: From 2010An08 as given in the Adopted level of ^{246}Md.

^{246}Md-Q(ε): 5920 *260* (2021Wa16).

^{246}Md-%ε+%β^+ decay: %α<23, %ε+β>77 (2010An08).

2010An08: ^{246}Md was produced via ^{209}Bi(^{40}Ar,3n) at the velocity filter SHIP at GSI. E(^{40}Ar)=187 and 198 MeV from the UNILAC bombarded a 0.450 μg/cm^2 metallic ^{209}Bi target. Measurements were performed with an array of position-sensitive Si detectors and a Ge clover detector consisting of four Ge crystals.

Measured: Eγ, Iγ, ce, Eα, $\alpha\gamma$ coin, α(ce) coin, (recoil)α, (recoil)$\alpha\gamma$ coin, half-lives, α decay branching ratios.

^{246}Fm Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	1.53 s *4*	J^π,$T_{1/2}$: From Adopted Levels.
0+x			%SF>10 (2010An08) See also 1996Ni09: Possible ε delayed SF decay from ^{246}Md (4.4 s).