Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 112,1833 (2011)	1-Jan-2011

S(n)=7.2×10^3 *syst*; S(p)=1.4×10^3 *syst*; Q(α)=8.89×10^3 *4* 2012Wa38
Note: Current evaluation has used the following Q record −6136 SY7136 syst 1293 syst 8888 40 2011AuZZ,2003Au03.
Estimated: $\Delta Q(\beta^-)$=332, $\Delta S(n)$=461, $\Delta S(p)$=429 (2011AuZZ).
Additional information 1.
Production, assignment: ^{209}Bi(^{40}Ar,3n) at E=4.78, 4.93, 5.12 MeV/A. Observed sequence of two previously unknown α decays; at E=4.93 MeV/A the 3n-deexcitation channel is expected; products of reaction channels involving emission of charged particles (pxn) and (α xn) do not show the observed decay properties (1996Ni09).
Activity produced by ^{209}Bi(^{40}Ar,3n), E=198 MeV. Measured emitted alpha particles, γ rays of 169.0-, 232.5-, and 396.4 keV in coincidence with alpha particles with Eα=8380-8640 keV. Also observed alpha particles with Eα=8744 keV 10 with $T_{1/2}$=0.75 s 18 (2010An08, 2006An13).

^{246}Md Levels

E(level)	$T_{1/2}$	Comments
0+x	0.9 s *2*	%α=100; %SF=?; %ε=? $T_{1/2}$: From 2010An08. Other values: 1.0 s *4* (1996Ni09), 0.75 s *18* (2006An13). Spontaneous fission (SF) was observed decaying with $T_{1/2}$=1.0 s *+10−3*. Part of this decay has been assigned to electron-capture delayed spontaneous fission (ε-SF) (2010An08).
0+y	4.4 s *8*	%ε>77; %α<23 $T_{1/2}$: From 2010An08. Activity produced by ^{209}Bi(^{40}Ar,3n), E=198 MeV. Measured emitted alpha particles, γ rays of 252- and 279 keV (possibly E1 or E2) in coincidence with alpha particles; Eα=8178 keV 10 (%Iα<23) (2010An08). Possible electron-capture delayed spontaneous fission decay (%ε-SF>10) (1996Ni06,2010An08).