^{84}Mo ε decay 2009St04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola and M. Galan	NDS 110,2815 (2009)	30-Sep-2009

Parent: ^{84}Mo: E=0; $J^\pi=0^+$; $T_{1/2}$=2.3 s *3*; Q(ε)=6720 *SY*; %ε+%β^+ decay=100.0

^{84}Mo-Q(ε): 6720 *500* (syst,2009AuZZ). Other: 6070 *500* (syst,2003Au03).

2009St04: ^{84}Mo produced in fragmentation reactions ^{9}Be(^{124}Xe,X) E=140 MeV/A ; separation by A1900 Fragment separator and further purified by new Radio Frequency Fragment Separator, fragment implanted into a double-sided silicon strip detector, TOF of fragment measured and event by event correlation with subsequent β decays. Prompt and delayed γ rays measured with 16 Ge detectors (segmented germanium array). The $\beta\gamma$ coincidence spectrum does not show any γ ray of ^{84}Nb daughter.

^{84}Nb Levels

E(level)	J^π[†]	$T_{1/2}$[†]	Comments
0.0	$(1^+,2^+,3^+)$	9.8 s *9*	J^π,$T_{1/2}$: from Adopted Levels.

[†] From Adopted Levels.