

^{93}Ru ϵp decay 1983Ay01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

Parent: ^{93}Ru : E=734.40 10; $J^\pi=(1/2)^-$; $T_{1/2}=10.8$ s 3; $Q(\epsilon\text{p})=2306$ 5; $\% \epsilon\text{p}$ decay=0.027 5

^{93}Ru -Q from 2011AuZZ; 2250 90 In 2003Au03.

^{93}Ru - $\% \epsilon\text{p}$ decay: $\% \epsilon\text{p}(10.8$ s $^{93}\text{Ru})=0.027$ 5 from 1983Ay01, based on measured Σ (delayed I(p)) and I(1396 γ , ^{93}Tc).

1983Ay01: sources from 24 MeV ^3He bombardment of 98.21% ^{92}Mo oxide targets; Si(Au) p detectors (FWHM=20, 50 keV), Ge(Li) γ detector; measured E(p), I(p), E_γ , I_γ .

 ^{92}Mo Levels

E(level)	J^π
0.0	0^+

Delayed Protons (^{92}Mo)

E(p) [†]	E(^{92}Mo)	E(^{93}Tc)	Comments
2481 5	0.0	6595	The evaluator estimates that this proton group constitutes approximately half the total delayed I(p) in the spectrum of fig. 1 (lower half) In 1983Ay01.

[†] From 1983Ay01. In the FWHM=20 keV spectrum of fig. 1 of 1983Ay01, at least six proton groups are evident; the evaluator estimates approximate E(p) values of 1.93, 2.07, 2.25, 2.48, 2.56 and 2.65 MeV for these. the authors report prominent groups At 2481 5, 2534 and 2557 only, and calculate E(^{93}Tc) for only the 2481p emitting level. if a 2534p exists, it is unresolved from the 2557p peak In fig. 1 and could hardly be described As 'prominent', so this E(p) May contain a typographical error.

 ^{93}Ru ϵp decay 1983Ay01Decay Scheme