^{87}Mo εp decay (13.4 s) 1997Hu07,1983Ha06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 124, 1 (2015)	30-Nov-2014

Parent: ^{87}Mo: E=0.0; J^π=(7/2$^+$); $T_{1/2}$=13.4 s *4*; Q(εp)=3795 *5*; %εp decay=15 *6*

^{87}Mo-$T_{1/2}$: other: 13.6 s *11* (1997Hu07).

^{87}Mo-Q(εp): from 2012Wa38.

^{87}Mo-%εp decay: %εp=15 *6* (1997Hu07), sum of proton branches to 2$^+$, 4$^+$ and 6$^+$ states. Other: 15 *8* (1983Ha06).

1997Hu07: ^{58}Ni(^{32}S,2pn) E=170 MeV. Measured protons, Eγ, Iγ, proton-γ coin using surface-barrier detectors for protons and HPGe detectors for gamma rays.

1983Ha06: ^{58}Ni(^{32}S,2pn) E=122 MeV, surface barrier telescope, measured proton spectra and K x ray spectra of zirconium in coincidence with delayed protons.

^{86}Zr Levels

E(level)	J^π†
0.0	0$^+$
752	2$^+$
1667	4$^+$
2671	6$^+$

† From Adopted Levels.

γ(^{86}Zr)

E_γ	I_γ†	E_i(level)	J_i^π	E_f	J_f^π
752	100	752	2$^+$	0.0	0$^+$
915	25 *3*	1667	4$^+$	752	2$^+$
1004	10 *2*	2671	6$^+$	1667	4$^+$

† For absolute intensity per 100 decays, multiply by 0.15 *6*.

Delayed Protons (^{86}Zr)

E(^{86}Zr)	I(p)†‡	Comments
752	11 *6*	I(p): other: 15 *8* (1983Ha06).
1667	2 *1*	
2671	2 *1*	

† Per 100 delayed protons (1997Hu07).

‡ For absolute intensity per 100 decays, multiply by 0.15 *6*.

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Decay Scheme

Intensities: Relative I_γ