^{92}Mo(^{58}Ni,p2n) 1993Se04,1993To02,1995Ho26

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh	NDS 181,1 (2022)	9-Mar-2022

1982Kl03: discovery of ^{147}Tm p radioactivity.
1995Ho26: review of GSI results.
1993Se04: E=261 MeV (Daresbury), two p peaks identified.
1993To02: p-γ coincidence (LBL), measured %p.

^{147}Tm Levels

E(level)	J^π	$T_{1/2}$ †	Comments
0.0	$11/2^-$	0.58 s *3*	%p=15 *5* (1993To02); %ε+%β^+=85 *5* (1993To02) J^π: based on p decay to ^{146}Er g.s. (1993Se04): L(p)=5 from $\pi(h_{11/2})$ and comparison of $T_{1/2}$(p, calc)=2.7 s to $T_{1/2}$(p, exp)=3.9 s *+16−8*. E(p)=1051 keV *3*, Q(p)=1071 keV *3* (1995Ho26; Q(p) includes screening correction).
68 *6*	$3/2^+$	0.36 ms *4*	%p=100 (1993To02) E(level): from energy difference in Q(p)′s (1995Ho26). J^π: based on p decay to ^{146}Er g.s. (1993Se04): L(p)=2 from $\pi(d_{3/2})$ and comparison of $T_{1/2}$(p, calc)=150 μs to $T_{1/2}$(p, exp)=360 μs *40*. E(p)=1119 keV *5*, Q(p)=1139 keV *5* (1995Ho26; Q(p) includes screening correction). $\sigma\approx5$ μb (1993Se04).

† From Adopted Levels.