^{69}Se εp decay (27.4 s) 2000Gi11,1977Ma24

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

Parent: ^{69}Se: E=0.0; J^π=(1/2$^-$,3/2$^-$); $T_{1/2}$=27.4 s *2*; Q(εp)=3390 *SY*; %εp decay=0.052 *8*

^{69}Se-%εp decay: %εp=0.052 *8*. Weighted average of 0.062 *12* (1977Ma24) and 0.045 *10* (2000Gi11).

2000Gi11: ^{69}Se from ^{40}Ca(^{32}S,2pn) at 100 MeV. Measured β-delayed protons, E(p), I(p), pγ-, px-ray, and γx-ray coincidences using a 300 μm boron implanted Si detector for protons, a 80% Ge detector for γ′s and a Si(Li) detector for x-rays. See also 1988De28.

1977Ma24: ^{69}Se from ^{40}Ca(^{32}S,2pn) at 100 MeV. Measured β-delayed protons, E(p), I(p), Eγ, Iγ, pγ-, px-ray, γx-ray, and γβ$^+$ coincidences using a ΔE-E telescope for protons, Ge x-ray detector, Ge(Li) and NaI(TI) detectors and a NE102 plastic scintillator.

^{68}Ge Levels

E(level)†	J^π†
0	0^+
1015.81	2^+
1777.42	2^+
2428.59	3^+

† From Adopted Levels.

Delayed Protons (^{68}Ge)

E(^{68}Ge)	I(p)†‡	Comments
0	98.6 *7*	I(p): Other:≥99 (2000Gi11).
1015.81	1.4 *7*	I(p): Other:≤1 (2000Gi11).
1777.42	<1.0	
2428.59	<0.5	

† From 1977Ma24.

‡ For absolute intensity per 100 decays, multiply by 0.00052 *8*.