^{39}Ti ε2p decay (31 ms) 1992Mo15

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica	NDS 113, 365 (2012)	15-Jan-2012

Parent: ^{39}Ti: E=0; J^π=(3/2$^+$); $T_{1/2}$=31 ms *+6−4*; Q(ε2p)=10157 *SY*; %ε2p decay=14.0

^{39}Ti-Q(ε2p): Uncertainty based on syst=205.

1992Mo15 show 14% β^+ branch from ^{39}Ti g.s. to the 8820 IAS In ^{39}Sc, which further decays by 2p to ^{37}K. About 30 b+2p events are found of which about half decay to the states shown In the table.

^{37}K Levels

E(level)
0
2170

Delayed Protons (^{37}K)

E(p)[†]	E(^{37}K)	I(p)[‡]	E(^{38}Ca)
2480	2170	≈9	8820
4750 *40*	0	≈5	8820

[†] For 2p group.

[‡] Absolute intensity per 100 decays.

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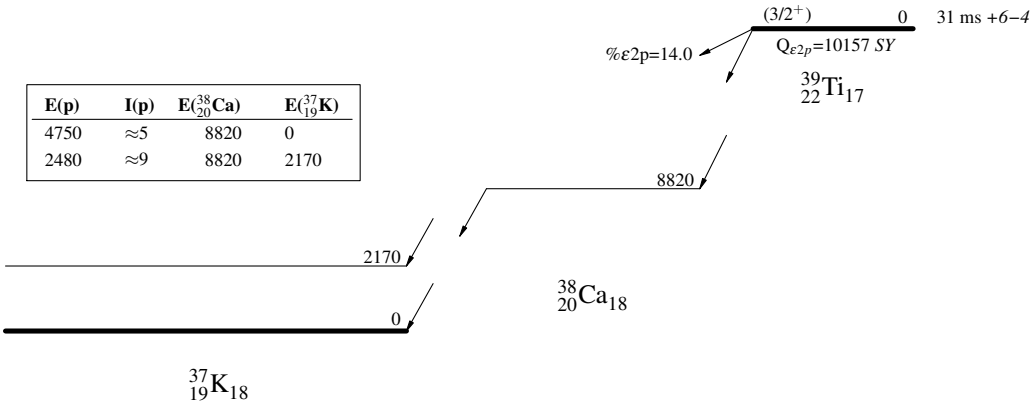
Decay Scheme

I(p) Intensities: I(p) per 100 parent decays



E(p)	I(p)	E($^{38}_{20}$Ca)	E($^{37}_{19}$K)
4750	≈5	8820	0
2480	≈9	8820	2170