^{42}Ar β^- decay (32.9 y) 1965St09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen[#] and Balraj Singh	NDS 135, 1 (2016)	31-May-2016

Parent: ^{42}Ar: E=0; $J^\pi=0^+$; $T_{1/2}$=32.9 y *11*; Q(β^-)=599 *6*; %β^- decay=100.0
^{42}Ar-$T_{1/2}$: From Adopted Levels of ^{42}Ar.
^{42}Ar-Q(β^-): From 2012Wa38.
1965St09: measured $T_{1/2}$ of ^{42}Ar.
Others:
1964Ho31: measured cross section for production and $T_{1/2}$.
1961Ja07: production of ^{42}Ar isotope.
1952Ka44: identification of ^{42}Ar and $T_{1/2}$.
1990Mi05: measured $\beta\gamma$ coin for ^{42}K decay. ^{42}K isotope obtained from ^{42}Ar decay.

^{42}K Levels

E(level)	J^π[†]
0	2^-

[†] From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
(599 *6*)	0	100	9.32[1u] *17*	av Eβ= 233 *16*

[†] Absolute intensity per 100 decays.