

${}^{43}\text{Cr}$ ϵ decay (21.2 ms) [2001Gi01](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen [#]		NDS 126, 1 (2015)	31-Mar-2015

Parent: ${}^{43}\text{Cr}$: E=0.0; $J^\pi=(3/2^+)$; $T_{1/2}=21.2$ ms 7; $Q(\epsilon)=15620$ SY; % ϵ +% β^+ decay=100.0

${}^{43}\text{Cr}$ - $J^\pi, T_{1/2}$: From Adopted Levels of ${}^{43}\text{Cr}$.

${}^{43}\text{Cr}$ - $Q(\epsilon)$: 15620 400 (syst,[2012Wa38](#)).

${}^{43}\text{Cr}$ decays also by $\beta^+ p$ to ${}^{42}\text{Ti}$ and by $\beta^+ 2p$ to ${}^{41}\text{Sc}$; by $\beta^+ 3p$ to ${}^{40}\text{Ca}$ ([2011Po01](#),[2012Au08](#)).

[2001Gi01](#): E=74.5 MeV/nucleon ${}^{43}\text{Cr}$ beam was produced in projectile fragmentation experiment using Ni(${}^{58}\text{Ni}, X$) at the GANIL facility. Target of a 230.6 mg/cm² thick natural nickel and 2.7 mg/cm² thick carbon stripper. Isotopes were selected with the Alpha spectrometer and the LISE3 separator. The selected isotopes were implanted in a silicon telescope of two silicon detectors. Measured $T_{1/2}({}^{43}\text{Cr})$ and delayed-proton spectra.

 ${}^{43}\text{V}$ Levels

E(level)	J^π	Comments
8.25×10^3 23	(3/2 ⁺)	Main β^+ decay may be to IAS state of ${}^{43}\text{Cr}$ g.s. at 8255 230 (2001Gi01).

 ϵ, β^+ radiations

E(decay)	E(level)
(7370 SY)	8250