

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan		NDS 136, 1 (2016)	1-Jul-2016

S(n)=16590 SY; S(p)=2130 SY; Q(α)=-2010 SY [2012Wa38](#)

$\Delta S(n)=450$, $\Delta S(p)=200$, $\Delta Q(\alpha)=360$ ([2012Wa38](#)) S(2p)=1340 syst 196, Q(ϵp)=8200 syst 200 ([2012Wa38](#)).

[1995BI06](#): produced by projectile fragmentation of ^{78}Kr at E=73 MeV/nucleon ($\text{Ni}(^{78}\text{Kr},X)$) at SISI/LISE facility at GANIL. ^{70}Kr was identified using TOF and ΔE -E.

[2000Oi02](#): produced by 1 GeV proton-induced spallation in a Nb foil ($\text{Nb}(p,X)$) at Cern. Isotopes separated using ISOLDE. A plastic scintillator, a HPGe detector (as a β telescope) and a gas-Si detector (to detect the β -delayed protons) were used. Measured $T_{1/2}$ using the time correlation between the proton pulse and $\beta(t)$. Subset of results presented in [2002Oi02](#).

[2002BI17](#): produced by fragmentation of ^{78}Kr beam ($^9\text{Be}(^{78}\text{Kr},X)$) at E=73MeV/nucleon at GANIL. Separated using LISE3 and identified through ΔE and TOF measurements. A silicon telescope was used. Measured $T_{1/2}$ from time correlation between ion implantation and β events in the silicon strip detector.

[2014Ro14](#): produced by fragmentation of a ^{78}Kr beam on a natural Ni target with E(^{78}Kr)=70 MeV/nucleon. Separated using the LISE3 spectrometer and identified using ΔE -TOF measurements. A silicon telescope was used. Measured $T_{1/2}$ from time correlation between ion implantation and β events in the silicon strip detector.

 ^{70}Kr Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	40 ms 6	$\% \epsilon + \% \beta^+ = 100$; $\% \epsilon p \leq 1.3$ (2000Oi02) $T_{1/2}$: from implant- $\beta(t)$ in 2014Ro14 . Others: 42 ms 31 (2002BI17) and 57 ms 21 (2000Oi02). $T_{1/2}$ is consistent with superallowed ϵ decay to ^{70}Br g.s. (2000Oi02).