

Adopted Levels 1981Vo04,1988Kr10,2001Lh01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112,1163 (2011)	15-Dec-2010

$Q(\beta^-)=1.12\times 10^4$ 5; $S(n)=4.8\times 10^3$ 5; $S(p)=1.35\times 10^4$ syst; $Q(\alpha)=-8.6\times 10^3$ syst 2012Wa38

Note: Current evaluation has used the following Q record 11.09E3 syst 4555 syst 13.69E3SY-8130 syst

2003Au03,2009AuZZ.

$Q(\beta^-)$, $S(n)$, $Q(\alpha)$: from 2009AuZZ (cf. 10970 310, 4540 300 and -8330 590, respectively, from systematics in 2003Au03).

$\Delta Q(\beta)=300$, $\Delta S(n)=300$, $\Delta S(p)=670$, $\Delta QA=670$ (2009AuZZ).

$Q(\beta^-n)=7670$ 300 from systematics (2003Au03,2009AuZZ).

Other references: 1989PfZZ, 2000PfZZ, 1997Be70.

Production: reaction product in the mass spectrum of bromine isotopes following 600-MeV proton bombardment of a UC-graphite target (1981Vo04). Neutron emission reported.

 ^{93}Br Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(5/2 ⁻)	102 ms 10	$\% \beta^- = 100$; $\% \beta^- n = 68$ 7 J^π : from shell-model systematics. $T_{1/2}$: from 1988Kr10; multiscaling of delayed n and β^- . $\% \beta^- n$: from 2001Lh01; supported by $\% \beta^- n = 77$ in 1989PfZZ. $\% \beta^- n = 10$ +5-3 from 1988Kr10 (as recommended in 1993Ru01) is incorrect due to diffusion of the Kr daughter out of transport tape backing (2000PfZZ).