

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)		NDS 129, 1 (2015)	27-Jul-2015

$Q(\beta^-)=1.15\times 10^4$ SY; $S(n)=2.4\times 10^3$ SY; $S(p)=1.69\times 10^4$ SY; $Q(\alpha)=-9.8\times 10^3$ SY 2012Wa38

The uncertainties associated with the systematic Q values $Q(\beta^-)$ 400, $S(n)$ 500, $S(p)$ 800, and $Q(\alpha)$ 600 keV.

Other binding energy calculations at 2013Ho05.

Produced by fission of U projectiles on a 1 g/cm Be target, using $10E+7$ particles/s beam at 750 MeV/nucleon. Fragments were identified by atomic number and mass-to-charge ratio deduced from the measured energy loss, time of flight, and magnetic rigidity using the FRS fragment separator at GSI. In the experiment (reported in 1995CzZZ, 1997Be12, and 1997Be70) 583 counts were assigned to ^{87}Ge (1997Be70).

1997Be70: Be($^{238}\text{U},\text{F}$) E=750 MeV/u; measured σ ; FRS at GSI.

 ^{87}Ge Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(5/2 ⁺)	≈ 0.14 s	$\% \beta^- = 100$; $\% \beta^- n = ?$ J^π : from systematics of N=55 nuclides. $T_{1/2}$: from model calculations and β decay strength function (1981Al25); other: > 150 ns from particle transit time of 300 ns in FRS fragment separator (1995CzZZ, 1997Be12, and 1997Be70). $\% \beta^- n$: Calculations in 2005Bo19.