

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes		NDS 161, 1 (2019)	1-Apr-2019

$Q(\beta^-)=102\times 10^2$ 13; $S(n)=-5280$ SY; $S(p)=-14450$ SY; $Q(\alpha)=-10850$ SY [2017Wa10](#)

$\Delta S(n)=1400$, $\Delta S(p)=1370$, $\Delta Q(\alpha)=1350$ (all from systematics in [2017Wa10](#)).

[2015Lo04](#): Facility: BigRIPS, RIKEN; Beam: $E(^{238}\text{U})=345$ MeV/nucleon, 0.3 pA; produced in $^{238}\text{U}+\text{Be}$ reaction; Target: 550 mg/cm² Be; Detectors: BigRIPS, WAS3ABi, EURICA; Measured: γ , HI- $\beta(t)$; Deduced: Mass separated source, $T_{1/2}$; Also, from the same collaboration: [2011Ni01](#), [2011NiZY](#);

[2009Pe06](#): Facility: Superconducting Cyclotron Laboratory at Michigan State University; Beam: ^{136}Xe at 120 MeV/nucleon, I=1.5 pA; Target: 1242 mg/cm² ^9Be ; Detectors: fragment separator, three plastic scintillator detectors, degraders, four silicon PIN detector, 40x40 pixel double-sided silicon strip detector, 10 mm Ge detector, neutron detector (NERO) comprising 16 ^3He and 44 B_3F proportional gas counters; Measured: Time-of-flight, energy loss, HI positions, mass-to-charge ratio, HI- β and HI- β -n(t) correlations; Deduced: β^-n , $T_{1/2}$.

 ^{105}Y Levels

E(level)	$T_{1/2}$	Comments
0	107 ms +6-9	$\% \beta^- = 100$; $\% \beta^- n \leq 82$ (2009Pe06) J^π : $[5/2^+]$ assigned by the evaluators from systematics. $T_{1/2}$: from 2015Lo04 ; Others: 160 ms +86-62 (2009Pe06), 83 ms +5-4 (2011Ni01). configuration: $5/2^+[422]$ assigned by the evaluators.