

$^9\text{Be}(^{238}\text{U},\text{F}\gamma)$ 2012Ka36

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 172, 1 (2021)	31-Jan-2021

2012Ka36: ^{238}U beam at $E=345$ MeV/nucleon provided by the RIBF accelerator complex at RIKEN facility. Fission fragments were separated and analyzed by BigRIPS separator, transported to focal plane of ZeroDegree spectrometer and finally implanted in an aluminum stopper. Particle identification was achieved by ΔE -tof- $B\rho$ method. Delayed gamma rays from microsecond isomers were detected by three clover-type HPGe detectors. Measured E_γ , I_γ , $\gamma\gamma$ -coin, isomer half-life. Deduced levels. Comparison with previous studies.

 ^{100}Sr Levels

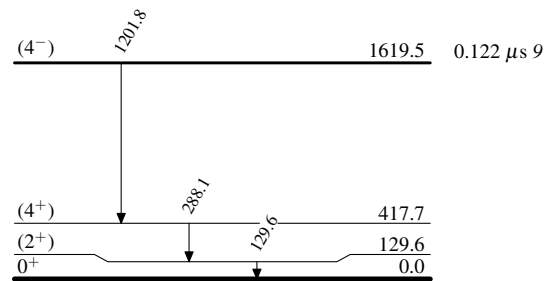
E(level) [†]	J^π [‡]	$T_{1/2}$	Comments
0.0	0^+		
129.6 5	(2^+)		
417.7 7	(4^+)		
1619.5 9	(4^-)	$0.122 \mu\text{s}$ 9	$T_{1/2}$: from $\gamma(t)$ (2012Ka36). Number of implanted fragments= 1.6×10^6 .

[†] From a least-squares fit to γ -ray energies.

[‡] From the Adopted Levels.

 $\gamma(^{100}\text{Sr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
129.6 5	129.6	(2^+)	0.0	0^+
288.1 5	417.7	(4^+)	129.6	(2^+)
1201.8 5	1619.5	(4^-)	417.7	(4^+)

$^9\text{Be}(^{238}\text{U},\text{F}\gamma)$ 2012Ka36Level Scheme $^{100}_{38}\text{Sr}_{62}$