Adopted Levels

	History				
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 121, 395 (2014)	1-Mar-2014		

 $Q(\beta^{-})=3930 SY; S(n)=6410 SY; S(p)=8340 SY; Q(\alpha)=-1510 SY$ 2012Wa38

2009St16,2008StZY thesis: ¹⁹⁵Re nuclide identified in the reaction ⁹Be(²⁰⁸Pb,X) with a beam energy of 1 GeV/nucleon produced by the SIS-18 accelerator at GSI facility. Target thickness=2.5 g/cm². Fragments identified in flight by the Fragment Separator (FRS) operated in achromatic mode based on time of flight, Bρ and energy loss. Data collected on six FRS magnetic rigidity settings centered on: ²⁰⁶Hg, ²⁰³Ir, ²⁰²Os, ¹⁹⁹Os, ¹⁹²W, and ¹⁸⁵Lu. Nuclides halted in a passive stopper surrounded by the RISING array in "Stopped Beam" configuration.

Experimental identification in a similar experiment at GSI in 2008St20 and 2009Al30.

2009Ku28: ¹⁹⁵Re was produced by the in-flight fragmentation of relativistic heavy projectiles. The Beam was ²⁰⁸Pb at 1 GeV/A bombarding a ⁹Be target. Fragment Recoil Separator (FRS) was used to identify ¹⁹⁵Re residues. The ¹⁹⁵Re nuclei were implanted into an array of four double-sided silicon strip detectors with a surface of 25 cm², 1 mm thickness each. Measured half-life from position-time correlations between the implanted fragments and the subsequent β decay.

2008KuZY, 2007KuZW, 2007KuZZ and 2005KuZU superseded by 2009Ku28.

¹⁹⁵Re Levels

Cross Reference (XREF) Flags

A ${}^{9}\text{Be}({}^{208}\text{Pb},\text{X})$

E(level)	J^{π}	$T_{1/2}$	XREF	Comments
0	[3/2 ⁻]	6 s 1	Α	$\%\beta^{-}=100$? Approximate number of nuclei implanted in the plastic stopper reported to be 60800 200 (2009St16,2008StZY).

E(level): the observed fragments are assumed to be in the ground state of ¹⁹⁵Re nuclei. The β^- decay is the only decay mode expected.

 $T_{1/2}$: deduced from position-time correlations between the implanted fragments and the subsequent β -decay (2009Ku28). Others: $T_{1/2}$ =3.29 s is predicted by 1997Mo25, 30 s from systematics (2011AuZY).

 J^{π} : $3/2^{-}$ predicted in 1997Mo25 calculations.