

${}^{181}\text{Ta}({}^{36}\text{S}, {}^{19}\text{B})$ 1999Re16

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	G. C. Sheu, J. H. Kelley		ENSDF	25-Oct-2018

1999Re16: Nuclei of interest were produced by the fragmentation of a 2.8 GeV ${}^{36}\text{S}$ beam on tantalum targets with thickness 288 μm , 377 μm , 539 μm or 854 μm , mounted on ≈ 100 μm thick carbon backings at GANIL. Five different settings of the LISE3 spectrometer were used to collect different nuclei. Particles were detected by six silicon detectors and were identified using ΔE and time-of-flight information. The γ -ray energies emitted following the β -decay were measured using four germanium detectors, each with 70% relative efficiency, placed at $\theta \approx 0^\circ$ relative to the secondary beam direction. The half-life of ${}^{19}\text{B}$ was measured as $T_{1/2} = 4.5$ ms *15*.

 ${}^{19}\text{B}$ Levels

<u>E(level)</u>	<u>$T_{1/2}$</u>
0	4.5 ms <i>15</i>