^{9}Be(^{208}Pb,X) 2007KuZW,2009Ku28

History

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

2009Ku28: ^{195}Re was produced by the in-flight fragmentation of relativistic heavy projectiles. The Beam was ^{208}Pb at 1 GeV/A bombarding a ^{9}Be target. Fragment Recoil Separator (FRS) was used to identify ^{195}Re residues. The ^{195}Re nuclei were implanted into an array of four double-sided silicon strip detectors with a surface of 25 cm^2, 1 mm thickness each. Measured half-life from position-time correlations between the implanted fragments and the subsequent β decay.

^{195}Re Levels

E(level)	$T_{1/2}$	Comments
0	6 s *1*	$\%\beta^-$=100? J^π: 3/2$^-$ is predicted in 1997Mo25 calculations. $T_{1/2}$: the half-life was deduced from position-time correlations between the implanted fragments and the subsequent β decay (2009Ku28). Other: $T_{1/2}$=3.29 s is predicted in 1997Mo25.