

$^{197}\text{Au}(^{29}\text{S}, ^{29}\text{S}')$ 2009Li29

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 113, 909 (2012)	1-Jan-2012

^{29}S beam was produced at E=49.2 MeV/nucleon from fragmentation of a ^{32}S primary beam at E=80.4 MeV/nucleon on a ^9Be target; two scintillation detectors placed in the two target chambers generated time-of-flight signals; a large-area silicon detector was used for ΔE signals and two single-sided silicon strip detectors (SSSD) were used to measure outgoing heavy fragments; another silicon detector was used to stop the heavy fragments; a quadrant silicon detector was used for ΔE signals of light particles, and two SSSDs for the position measurements of light particles; measured ^{27}Si -p-p coincident events; deduced proton-proton correlations and decay modes via ^2He cluster, three-body phase-space decay, and two-body sequential emission were investigated.

 ^{29}S Levels

E(level)	Comments
7.4×10^3 4	$\%^2\text{He} < 10$ (2009Li29).
10.0×10^3 4	$\%^2\text{He} = 29$ +10-11 (2009Li29).