^{34}S(^{32}S,^{33}S) 1983Bi11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 199,1 (2025)	30-Sep-2024

1983Bi11: E=90 and 97.09 MeV ^{32}S beams were produced from the tandem accelerator of Centre de Recherches Nucleaires in Strasbourg (CRNS). Target was 3 μg/cm^2 ^{34}S implanted on thin carbon foils. Reaction products were detected with two position-sensitive detectors. Measured $\sigma(\theta)$. Deduced product spectroscopic factors from DWBA analysis. Comparisons with EFR-DWBA calculations.

^{33}S Levels

Product spectroscopic factor S_1S_2 is defined by $C_1^2S_1 \times C_2^2S_2 = \sigma(\theta)^{exp}/\sigma(\theta)^{DWBA}$ in 1983Bi11, for a pair of levels in ^{33}S ejectile and recoil nuclei, respectively. See 1983Bi11 for more details about S_1S_2 data.

E(level)
0
840
2870
2930