

$^{36}\text{S}(^{11}\text{B},^{14}\text{N})$ 1985Fi03

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

1985Fi03: E=83 MeV ^{11}B beam was produced from the Australian National University 14UD Pelletron accelerator. Target was $175 \mu\text{g}/\text{cm}^2$ Ag_2S on a $16 \mu\text{g}/\text{cm}^2$ carbon backing. Reaction products were momentum-analyzed with an Enge split-pole spectrometer (FWHM=300 keV) and detected with a multi-element gas-filled detector. Measured cross section. Deduced levels, Q value and mass excess.

 ^{33}Si Levels

E(level) [†]	J π [‡]	Comments
0	(3/2 ⁺)	$d\sigma/d\Omega=25 \mu\text{b}/\text{sr}$.
1060 20	(1/2 ⁺)	
4320 30	(5/2 ⁺)	

[†] From 1985Fi03.

[‡] Proposed in 1985Fi03 based on shell-model predictions.