
 $^{37}\text{Cl}(^{11}\text{B},^{13}\text{N})$ **1988Or01**

1988Or01: An 81-MeV $^{11}\text{B}^{5+}$ beam was produced from the ANU 14UD Pelletron accelerator. Targets were enriched BaCl_2 .

Reaction products were momentum-analyzed with an Enge split-pole spectrometer (FWHM=200 keV at 5.75-10.25°) and detected with a multi-element gas-filled detector at the focal plane. Measured $\sigma(E(^{13}\text{N}))$. Deduced levels. Comparisons with shell-model and DWBA calculations. Proposed a decay scheme of ^{35}Si based on the γ transitions observed by **1986Du07**.

 ^{35}P Levels

E(level) [†]	Comments
0	$d\sigma/d\Omega=120 \mu\text{b/sr}$ 30.
2389 4	$d\sigma/d\Omega=200 \mu\text{b/sr}$ 50.
3860 10	$d\sigma/d\Omega=35 \mu\text{b/sr}$ 9.
4250 20	
4640 20	$d\sigma/d\Omega=30 \mu\text{b/sr}$ 8.
5010 20	
5220 40	$d\sigma/d\Omega\approx 10 \mu\text{b/sr}$ 3.
5840 50	
7590 20	$d\sigma/d\Omega=45 \mu\text{b/sr}$ 11.
8390 40	

[†] From **1988Or01**.