

# Measurement of the $^{11}\text{B}$ target thickness by using the elastic scatterings with proton particles of 1.1 - 1.9 MeV energy

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The thickness of the  $^{11}\text{B}$  target was determined by using  $^{11}\text{B}(p,p_0)$  elastic reaction. The proton beams were accelerated up to the energy range from 1.1 - 1.9 MeV by the Pelletron 5SDH-2 accelerator at Hanoi University of Science. The measured  $^{11}\text{B}$  target thickness is  $65.45 \pm 3.78 \mu\text{g}/\text{cm}^2$ , lower than the value of  $74 \mu\text{g}/\text{cm}^2$  from the target supplier. This result demonstrates the capability of this method in the target thickness determination.

Keywords: thickness, boron target, proton –nucleus elastic scattering, Pelletron.

## Presentation type

Oral presentation

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