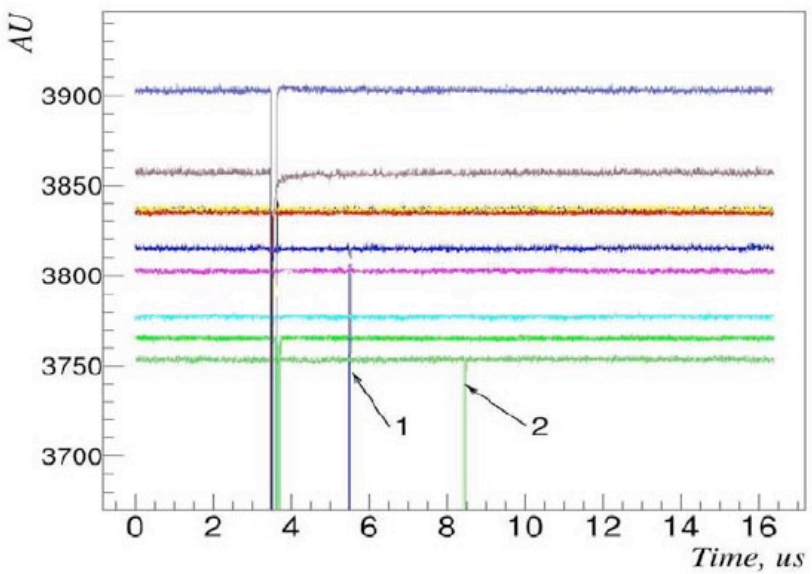
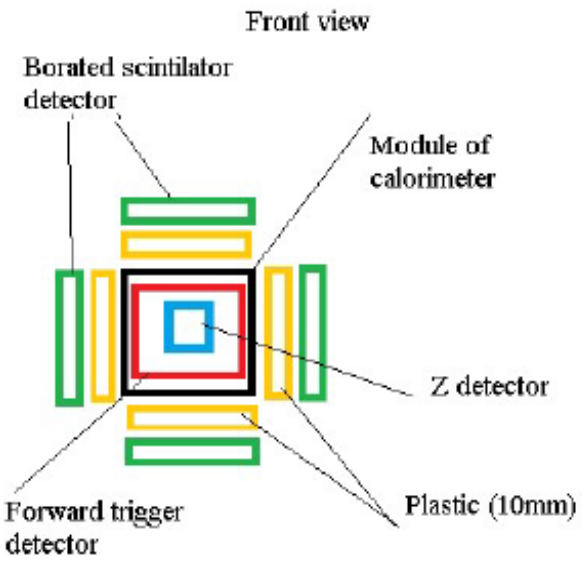
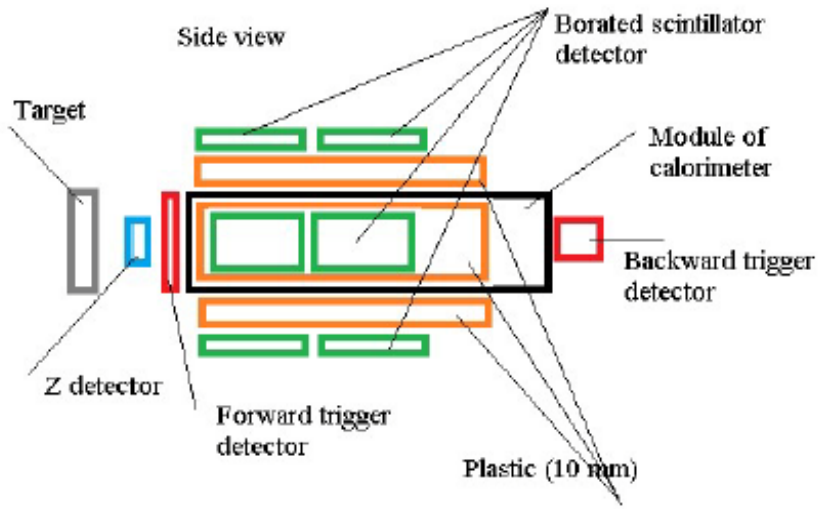
Physics for test beam of the Nucleon experiment, May 2022

- Capture of thermalized neutrons born from hadron interaction in the calorimeter module in borated scintillator
- Compare number of captured neutrons in hadron and electron beams







Beam requirements

- 4-5 days of 100-200 GeV electron beam, purity is the most important parameter
- 2-3 days of 100-200 GeV hadron beam, max intensity ~5 kHz, no other requirements

Infrastructure requirements

- 1 movable platform of any kind with remote operation
- Minimum dimensions of such platform: 60x60 cm