Contribution ID: **387** Type: **Poster**

THE MEASURMENT OF THE ABSOLUTE NEUTRON FLUX

We have measured the flux of fast neutrons at 4.6MeV. A twin gridded ionization chamber and back to back 238U two samples were employed. Experiments were performed at the Van de Graaff accelerator of the Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna, Russia. Fast neutrons were produced through the D(d,n)3He reaction by using a deuterium gas. Cross section at En=4.6 MeV of the 238U(n,f) reaction was used as the standard for absolute neutron flux determination. The abundance of the 238 U isotope in the sample is 99.999%. The working gas of the ionization chamber was Ar+3%CO2.

Primary author: Ms ASSYLOVA, Aidana (FLNP JINR)

Presenter: Ms ASSYLOVA, Aidana (FLNP JINR)

Track Classification: Experimental Nuclear Physics