



Contribution ID: 155

Type: **Sectional**

Particle detection system for SHE synthesis at DGFRS-II

Thursday 3 October 2019 12:15 (15 minutes)

This talk will provide information about particle detection chain for the new Dubna gas-filled recoil separator-II. Detector chamber itself consists of time-of-flight system and implantation double-sided silicon strip detector surrounded by six single side strip detectors (overall 224 channels). Main part of the talk will be focused on PXI based Alpha & Gamma spectrometer which will handle each channel from DSSSD and side detectors independently. This leads to PC controlled PXI multi crate system with timestamp sync and more. Last part will be about DAQ software written in C++ and relevant online monitoring client.

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Session Classification: Triggering, Data Acquisition, Control Systems

Track Classification: Detector & Nuclear Electronics