

Welcome to NICA days 2019 and IVth MPD Collaboration Meeting in Warsaw



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α , β , γ radiation monitoring in the working area of the MPD Slow Control electronic equipment.

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Project focuses on α , β , γ radiation monitoring. Firstly, three Gamma-Scout detectors were tested if the measurements taken in the same location are equal within 5% uncertainty. Next, detectors were moved to three different locations. Data collected from those locations in three available working modes (detection of γ , $\beta+\gamma$ and $\alpha+\beta+\gamma$ radiation) was analyzed to determine potential influence of the rack's case on radiation levels. Also, based on received data of radioactive sources (Eu-152 and Thorium) tested using Radateh photoelectronic detector three spectrograms were generated and compared, to conclude best utility of each type of detector. Further tasks involved developing software for a self-built Geiger-Müller counter using NI myDAQ and LabVIEW environment.

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