

## 25th anniversary of JINR in ATLAS



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# Background and luminosity in ATLAS cavern monitoring system on the base of GaAs:Cr pixel detectors - GaAsPix ATLAS project

The main goal of this system is to enhance the performance of the ATLAS-TPX network for real-time measurements of radiation field characteristics inside the ATLAS detector. The proposed enhancement will also improve the system capabilities to measure and monitor the luminosity and the induced radioactivity of the environment online. Comparison of ATLAS-TPX devices data with simulated background (FLUGG / GCALOR) will contribute to better understanding towards future phases of the ATLAS detector upgrade. It will also possibly provide some information on single event effect (SEE) origin.

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