

Student's Zone 2019 of the NICA Project



Contribution ID: 71
Monte-Carlo models

Type: Physics data analysis for the MPD and BM@N experiments, including

Development of visualisation for MPD experiment

Monte Carlo simulation plays a significant role in particle physics. Therefore, it is important that the geometry of MPD components in software needs to be as close to real as possible. Visualising simulations helps to create actual projection of detector and generated particles. The Cosmic Ray Detector reduces the amount of muons counted for analysis by detecting cosmic radiation. With given geometry and functional code it can be added to MPD simulation.

During presentation geometry of MPD will be shown as well as exemplary visualisation of collisions. The process of simulating events will be explained.

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