

## Student's Zone 2019 of the NICA Project



Contribution ID: 83  
Monte-Carlo models

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

### Implementation of algorithms for reconstruction and identification of baryons, including strange baryons, in MPD experiment

In experiments like MPD, that study behaviour of particles, it is important to correctly identify registered particles. One problem is the identification of particles that generate signal in detector. Second is the reconstruction of baryons, that have life span too short to reach detectors.

The presentation will start with brief explanation of particle physics that was used in studies. The process of identification and the idea behind reconstructing strange baryons from the data available will be explained. Main findings of the study will be presented. In conclusion will be presented possible improvements in both processes.

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**Session Classification:** TeFeNICA and Slow Control final presentations

**Track Classification:** Slow Control System 2019