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Deuteron, antiproton and antideuteron production cross-section studies for nucleus-nucleus collisions at the NA61/SHINE experiment.

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NA61/SHINE is a large-acceptance fixed-target experiment located at the CERN SPS, which studies final hadronic states in interactions of various particles and nuclei. It is unique in terms of providing data on a variety of collision systems at different collision energies. This allows for extensive deuteron, antiproton and antideuteron production cross-section studies. My talk will focus on heavier collision systems like p+C or pion+C. I will present a preliminary analysis of experimental data and discuss quality cuts and the particle identification method as well as present deuteron, antiproton, and antideuteron yields as a function of momentum.

Primary author: NASKREŹ, Michał

Presenter: NASKREŹ, Michał