Contribution ID : **117** Type : **Oral talk**

Directed flow of protons and deuterons in 3.8A GeV Xe+Cs(I) collisions at the BM@N experiment

Wednesday, 28 October 2026 09:30 (15)

In heavy-ion collisions at a beam energy of 3.8A GeV, a dense baryonic medium is formed in the nuclear overlap zone. The anisotropic flow of produced particles provides insight into the transport properties and equation of state (EoS) of strongly interacting matter. This contribution presents preliminary results on the directed flow (v_1) of protons and deuterons in Xe+Cs(I) collisions at 3.8A GeV, obtained with the BM@N experiment. The results are compared with available world data and different model predictions.

Primary author(s) : TROSHIN, Valery (JINR, MEPhI); TARANENKO, Arkadiy (NRNU MEPhI); DEMANOV, Alexander; MAMAEV, Mikhail (NRNU MEPhI)

Presenter(s) : TROSHIN, Valery (JINR, MEPhI)

Session Classification : Heavy ion physics

Track Classification : Heavy ion physics