

Reconstruction of strange particle decays from Xe+CsI interactions with the BM@N spectrometer

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In December, 2022 - January, 2023 the BM@N experiment performed its first physics run with full configuration. Over 400 million events of Xe+CsI interactions with the Xe beam kinetic energy of 3.8A GeV were collected.

Since then, the collaboration put strong efforts to reconstruct and analyze collected data. The current status of this activity will be presented with the emphasis given to the ability of the experiment to reconstruct strange particles via their weak decays to charged hadrons.

Section

Heavy ion collisions at Intermediate and high energies

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