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Analysis of phi meson production in the BM@N experiment

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This work is devoted to the search for phi mesons after collision of Xe beams with a CsI target at E = 3.8 AGeV at the BM@N experiment (JINR, Dubna). Both MC and experimental data were considered and peaks in the invariant mass distribution corresponding to phi mesons were obtained. Analysis of reconstruction efficiency was performed. The future aim is to increase our understanding of the transition from baryonic matter to (quark-gluon plasma) QGP.

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