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GEM tracking system of the BM@N experiment

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Content

BM@N experiment (Baryonic Matter at Nuclotron) is aimed to study core-core (up to "gold-gold") collisions in extreme conditions. High intensity of interactions and large multiplicity of charged particles in each event cause special requirements to detectors: high spatial and time resolution, radiation loadings up to $10^6/cm^2$. As soon as triple GEM (Gas Electron Multipliers) posses all above-mentioned characteristics, they were chosen as the main track detector. Integration of GEM detectors into the experimental setup structure and study of their characteristics are the topics of the report.

Summary

Primary author(s) : Mrs. MAKSYMCHUK, Anna (Joint Institute for Nuclear Research)

Co-author(s) : Dr. KAPISHIN, Mikhail (JINR); Mrs. KULISH, Elena (JINR); Dr. VASILIEV, Sergey (JINR); Dr. MAKANKIN, Alexandr (JINR); Mr. KOLESNIKOV, Alexandr (JINR)

Presenter(s) : Mrs. MAKSYMCHUK, Anna (Joint Institute for Nuclear Research)

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