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Features of coordinate reconstruction for microstrip tracking detectors in the BM@N experiment for the configuration of the first physics run

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The high-precision coordinate detectors of the tracking system in the BM@N experiment are based on microstrip readout. The complete tracking system designed for the latest xenon physics run (winter of 2023) consists of three parts: an ion-beam tracker and two trackers (inner and outer) for charged particle registration after primary interactions. The report reviews the features and implementation of the method for spatial coordinate reconstruction from two-coordinate microstrip readout planes concerning the latest run configuration. Also, this work presents the features of the development of the unified software model which implements the mentioned data processing for the tracking detectors.

Summary

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