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Forward Spectator Detector for CBM

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The development of the Forward Spectator Detector (FSD) within the CBM experiment represents a crucial step towards successful realization of the CBM physics program - understanding of highly compressed nuclear matter at the forthcoming FAIR facility. Specifically designed for detection of collision participants at high collision rates at SIS-100 accelerator, the FSD employs scintillator-based detector technology to enable accurate reconstruction of the reaction plane and determination of collision centrality. An overview of the technical design and performance studies conducted for the FSD will be provided. These studies encompass extensive prototyping and pre-series testing of the detector, employing a combination of simulations and real data tests to assess the efficacy of various detector configurations.

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