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Centrality determination in heavy-ion collisions with CBM experiment

The size and evolution of the medium created in a heavy-ion collision depends on collision geometry. Experimentally collisions are characterized by the measured particles multiplicities around midrapidity or energy measured in the forward rapidity region, which is sensitive to the spectator fragments. In the CBM experiment the multiplicity of produced particles is measured with the silicon tracking system (STS). The projectile spectator detector (PSD) is sensitive to spectator fragments. We present the procedure of collision centrality determination in CBM and its performance using the PSD and the STS information.

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