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## The CBM heavy-quark program

*Wednesday 5 February 2014 11:00 (30 minutes)*

The Compressed Baryonic Matter (CBM) experiment at FAIR is designed to explore the QCD phase diagram in the region of high baryon densities and moderate temperatures. The key CBM observables include particles containing hidden charm  $-J/\psi$  and  $\Psi'$ , open charm  $-D_0, D^+, D^*$  and  $\Lambda_c$ , low-mass vector mesons decaying into leptons and multi-strange hyperons. Particularly demanding is the measurement of open charm particles with very low multiplicities, which is based on the real time selection of displaced vertices with an accuracy of about  $50 \mu\text{m}$ . In the talk we discuss the problems of the detection of heavy-quark particles in fixed target experiments with relativistic heavy ion collisions.

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