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## The Compressed Baryonic Matter experiment

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The Compressed Baryonic Matter (CBM) experiment will be one of the major scientific pillars of the future Facility for Antiproton and Ion Research (FAIR) in Darmstadt. The goal of the CBM research program is to explore the QCD phase diagram in the region of high net baryon densities using high-energy nucleus-nucleus collisions. This includes the study of the equation-of-state of nuclear matter at high densities, and the search for the deconfinement and chiral phase transitions. The CBM detector is designed to measure both bulk observables with large acceptance and rare diagnostic probes such as charmed particles, multi-strange hyperons and low mass vector mesons. The physics program of CBM will be summarized, followed by an overview of the detector concept. Finally, the expected physics performance of CBM will be presented and discussed.

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