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CBM

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The Compressed Baryonic Matter (CBM) experiment is 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 baryon densities using high-energy proton and heavy-ion beams in the energy range from 2A GeV to 45A GeV. Key aspects are the study of the equation-of-state of strongly interacting matter at high densities and the search for phase transitions and exotic (quasi) bound states. The CBM detector concept is unique by providing sufficient bandwidth to measure rare probes like multi-strange anti-baryons, di-leptons and charmed particles in conjunction with bulk observables in a large acceptance. The physics program and the status of the experiment will be discussed.

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