

Contribution ID : 58

The international Facility for Antiproton and Ion Research (FAIR) at Darmstadt

Content :

Abstract

The international Facility for Antiproton and Ion Research (FAIR) at Darmstadt will open up exciting opportunities for a whole spectrum of scientific disciplines ranging from particle and hadron physics, nuclear/quark matter physics, nuclear structure and nuclear astrophysics to atomic physics, dense plasma research, materials research, space research, radio biology and radio medicine. The Compressed Baryonic Matter (CBM) experiment will be one of the major scientific activities at the FAIR facility. The goal of the CBM research program is to explore the QCD phase diagram in the region of high 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.

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Session classification : --not yet classified--

Track classification : --not yet classified--

Type : --not specified--