

Development of a RICH detector for CBM

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The Compressed Baryonic Matter (CBM) experiment at the Facility for Antiproton and Ion Research (FAIR) in Darmstadt is preparing a fixed target heavy-ion experiment for the investigation of baryonic matter at highest net-baryon densities. An essential observable of the physics program will be a precise measurement of low-mass vector mesons via their leptonic decay channel, in which a gaseous Ring imaging CHerenkov (RICH) detector will play a key role for identifying the decay electrons. The research and development of the CBM-RICH detector will be introduced and the performance of a prototype detector being real size in the most important dimension, i.e. the length, from a testbeam at the SPS-T9 beamline at CERN will be presented.

Keywords

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