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Detector technologies for the Electron-Ion Collider (EIC

Monday 1 July 2024 09:00 (30 minutes)

The Electron–Ion Collider (EIC) will collide high-energy electron beams with high-energy ion beams over a very wide range of center-of-mass energies up to 140 GeV. The exciting science program imposes very demanding requirements for the detector. The electron-Proton/Ion Collider (ePIC) detector will be the most sophisticated particle detector designed and built to investigate collisions between different beams. The detector will comprise 25 different subsystems including tracking detectors, calorimetry, particle ID, polarimetry, with focus on streaming readout electronics and systems integration. A robust detector R&D program is focused on advancing technologies needed to improve detector functionality. An overview of the detector technologies currently included in the detector concept, as well as others being considered for R&D, will be presented at the conference.

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