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ePIC's physics and detector overview

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On behalf of the ePIC collaboration.

The Electron-Ion Collider (EIC) is a next-generation facility to explore quantum chromodynamics (QCD) by colliding polarized electrons with polarized protons and heavy ions. The ePIC detector at the EIC will study the 3D structure of nucleons, the spin-momentum correlations of quarks and gluons, and the emergent properties of dense gluon fields. Leveraging cutting-edge technologies, ePIC aims to deliver unprecedented precision in imaging hadron structure and probing QCD in extreme conditions. This talk will highlight the EIC's physics goals and ePIC's innovative detector design.

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