

Abstract Submitted
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The eRHIC Detector: Design and Realisation ELKE-CAROLINE ASCHENAUER, BNL — eRHIC is a proposed high luminosity, polarized Electron Ion Collider (EIC), which would make use of the existing RHIC infrastructure. eRHIC is a triple IP collider, with the possibility of using the two existing (but upgraded) detectors, PHENIX and STAR, and a dedicated eRHIC detector. eRHIC is a triple-IP collider, with a dedicated eRHIC detector and the possibility of using the two existing, but upgraded IP detectors PHENIX and STAR. A detector has to be designed that can make use of present knowledge and experience gained from the HERA detectors, but has to be adapted to suit the EIC physics program. This presentation will describe the eRHIC detector and interaction region designs as well the presently ongoing R&D activities for making technology choices towards such a detector.

Elke-Caroline Aschenauer
BNL

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