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eRHIC: New Technology Frontiers in machine, IR and detector design

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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 a dedicated eRHIC detector and the possibility of using the two existing, but upgraded IP detectors PHENIX and STAR.

This presentation will describe the novel eRHIC machine, interaction region and dedicated detector designs as well as give a short overview about the presently ongoing R&D activities for making technology choices towards such a new detector.

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