

Abstract Submitted
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Physics with ePHENIX at eRHIC ALEXANDER BAZILEVSKY,
Brookhaven National Laboratory — Addition of a high intensity polarized electron beam facility which could realize Deep Inelastic Scattering (DIS) research with one of the RHIC beams is one of the future upgrades to the Relativistic Heavy Ion Collider (RHIC) presently under consideration. To take a full advantage of such machine evolution, after more than a decade of exciting physics results, both with heavy ion and polarized proton collisions, PHENIX Collaboration has launched a detector upgrade study consistent with the above collider upgrades, going in to the eRHIC era. In this talk, we discuss physics topics we plan to address with the e-p and e-A collisions at eRHIC.

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