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The Electron Ion Collider

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The Revolution to our view of nucleon structure and the glue.

The 2015 nuclear physics long-range plan endorsed the realization of an electron-ion collider as the next large construction project after FRIB. The electron-ion collider with its high luminosity ($>10^{33} \text{ cm}^{-2}\text{s}^{-1}$), wide kinematic reach in center-of-mass-energy (20 GeV to 145 GeV) and high lepton and proton beam polarization provides an unprecedented opportunity to reach new frontiers in our understanding of the spin and dynamic structure of nucleons and nuclei. This presentation will summarize the key physics highlights and the machine and detector designs at BNL and JLab.

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