

Physics with an Electron-Ion Collider

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An Electron-Ion Collider, proposed in the U.S. as facility upgrades to Jefferson Lab or the Relativistic Heavy Ion Collider, would offer unique capabilities to study quarks and gluons in nucleons and nuclei using flexible collision energies, high luminosity, and high polarization. It would make it possible to image quarks and gluons in nucleons and nuclei, to characterize their QCD dynamics, and to explore phenomena at high gluon density. This talk will highlight the science, key measurements, and prospects for realization.

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