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## Simulation and instrumentation for the future Electron-Ion Collider

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In order to study the internal structure of nucleons and nuclei and address some important outstanding questions in nuclear physics, a new Electron-Ion Collider (EIC) is planned to be built at Brookhaven National Lab (NY, USA). The EIC will collide a high energy proton/ion beam with a high energy electron beam. High performance detectors will be used to detect the particles created in the collisions. Detailed simulations and instrumentation developments are still required to better define the detectors that will soon start to be constructed.

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