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Quark and Gluon Imaging at the EIC

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The Electron-Ion Collider (EIC), to be constructed at the site of Brookhaven National Lab within this decade, will be the worlds first to collide polarised electron beams with polarised protons and light ions and unpolarised nuclei up to Uranium. With centre-of-mass energies ranging from 20 to 140 GeV and luminosities of $10^{33-34} \text{ cm}^2 \text{ s}^{-1}$, it will open up new, wide realms of phase space, reaching from the valence quark region to deep into the quark-gluon sea, for study with an unprecedented level of precision. This will enable three-dimensional imaging of the quark and gluon structure of the nucleon and nucleus and a mapping of its internal dynamics across the widest span of parton momenta. This talk presents an overview of the imaging programme planned for the EIC and discusses the types of scattering processes which will make it possible.