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Science and Status of the US Electron Ion Collider (EIC) (I)

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In 2015, the US nuclear science advisory committee (NSAC) in its long range planning exercise strongly recommended the construction of a high-energy high-luminosity electron ion collider (EIC). It was recognized that the EIC, with its polarized electron and light ion beams, and unpolarized heavy ion beams, would be a unique facility to help us study the role of gluons in QCD and answer some of the most compelling questions in QCD that remain unanswered. In this presentation, I will present some of those questions and explain how the EIC will address them. I will summarize with the status of the EIC project in the US.

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