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Accelerator R&D for the Electron Ion Collider

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Designs of two proposed electron-ion colliders, eRHIC at BNL and JLEIC at JLab, are driven by achieving unprecedentedly high performances in collider luminosity, beam polarization and particle detection. To realize such design goals, an array of advanced concepts and new accelerator technologies have been integrated into the two collider designs, and several key machine parameters have been pushed beyond the present state-of-art. In this presentation, I give an overview of the advanced accelerator R&D for the two electron-ion colliders and also highlight recent progresses in some areas of the accelerator R&D.

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Classification de Session: Accelerator R&D