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Potential Contribution of Korean Groups for the EIC

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The electron ion collider (EIC) is the future particle accelerator to be built at the Brookhaven National Laboratory (BNL). It will collide electrons and various nuclei to precisely measure the internal structure of nuclei, including the spin and momentum distribution of quarks and gluons. It is also expected to provide unprecedented hard probe data to shed light on the strong interaction in medium. The construction of EIC is planned to be done in the early 2030s, and this idea is now materialized by getting the critical decision 1 (CD-1) from the US DOE in July 2021. To participate in this future experiment, 13 faculties from 9 Korean institutions made a consortium and submitted the expression of interest to BNL. In this presentation, we will review the potential contribution of Korean nuclear and particle physics groups in terms of detector R&Ds and physics studies.

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