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Diffractive and Tagging Processes in EIC Collider Experiment - ECCE

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The Electron-ion Collider to be constructed at Brookhaven National Lab is considered to be the next generation "dream machine" in future QCD research. One of its main objectives is to provide answers to the many puzzles on the hadron structure raised by the recent studies at the Jefferson Lab and RHIC programs and unveil new information. The ECCE (EIC Collider Experiment) consortium, is developing a general purpose detector designed to meet the requirements and performance goals for the EIC physics program, as laid out by the EIC Yellow-Report. In this presentation, I will concentrate on the ongoing research efforts on the Diffractive and Tagging processes, whose goal is to study meson and hadron structures as well as explore new opportunities such as the electron heavy-ion diffractive scatterings using the integrated Far Forward detector system.