

## Diffraction with an EIC

Overview of the status of art of the diffractive physics program with the future EIC/eRHIC machine will be given. eRHIC is a machine designed to accelerate an electron beam with energies ranging up to 20 (30) GeV to collide with a hadron beam (protons, nuclei) at an energy which can be varied up to 325 GeV. The high luminosity of the machine, expected in the order of  $10^{34} \text{ cm}^{-2} \text{ s}^{-2}$ , will open the opportunity for very high precision measurements of a large variety of diffractive events.

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