DIS 2015
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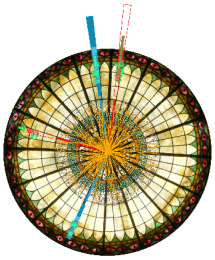

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Highlights from the (un)polarized e+p scattering program at an EIC

Thursday, 30 April 2015 09:45 (25 minutes)

Our understanding of the structure of nucleons is described by the properties and
dynamics of quarks and gluons in the theory of quantum chromodynamics. With advancements in theory and the development of phenomenological tools we are preparing for the next step in subnuclear tomographic imaging at a future electron-ion collider. High center-of-mass energies ($\sqrt{s} \approx 45 - 150$ GeV) in combination with extremely high luminosities (10^{33-34} cm^{-2}s^{-2} will provide the precision and a kinematic reach well into the gluon dominated regime. Highly polarized nucleon and electron beams ($P_{beam} \approx 70$

Primary author: ASCHENAUER, elke-caroline (BNL)

Presenter: ASCHENAUER, elke-caroline (BNL)

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Track Classification: WG7 Future experiments