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EIC Science Overview¹

ANDREAS METZ, Temple University

The electron-ion collider (EIC), which is going to be a new flagship accelerator facility in the United States, will open the door to exploring the underlying quark and gluon structure of nucleons and atomic nuclei at an entirely new level. EIC measurements will also provide deep insights into the physics of strong color fields and the process of hadron formation. In this talk, we will discuss the prospects for what is generally regarded as the EIC science pillars, such as the spin and the mass of the nucleon, multi-dimensional imaging of hadrons, and parton saturation. Some other interesting topics, which so far have received less attention in relation to the EIC science case, will also be presented briefly.

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