Overview of Light Ion (He4) DVCS

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ABSTRACT

The Electron-Ion Collider (EIC) will allow us to probe the structure of the nucleon in DIS experiments, utilising a wide range of ion species. In particular, many studies focus on using light nuclei such as helium-4. Bench marking the physics performance of our detectors using light ion reaction channels introduces additional complexity due to non-linear beam rigidity and forward magnetic steering. I will present the current status of work in analysing Deeply Virtual Compton Scattering (DVCS) on He4 which is concerned with the aforementioned issues.

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