



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

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(I) Canadian Theory Community and the Electron-Ion Collider

Tuesday, 7 June 2022 13:45 (30 minutes)

The Electron-Ion Collider (EIC) will uniquely address questions about the origin of nucleon mass and spin, properties of dense systems of gluons, as well as opportunities to connect to neutrino physics, astrophysics, and fundamental symmetries at higher energies.

Canadian theorists are valued collaborators complementing the experiment efforts worldwide, and they are currently taking roles in EIC working groups and committees and offer a broad range of contributions such as $e+A$ gluon saturation, GPDs and TMDs, radiative corrections and Lattice QCD.

The talk will briefly outline related efforts and expertise of Canadian theory groups, and how the Canadian subatomic physics community gathers to outline its vision for the next five years and beyond, placing Canadian contributions within a long-term international context.

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Session Classification: T3-6 Physics at the EIC Symposium: Theoretical Physics at the EIC (DNP) | Symposium sur la physique à l'EIC: physique théorique à l'EIC (DPN)

Track Classification: Symposia Day (Tues. June 7) / Journée de symposiums (mardi, le 7 juin): Symposia Day (DNP) - Physics at the Electron-Ion Collider (EIC)