



Canadian Association  
of Physicists

Association canadienne  
des physiciens et physiciennes

Contribution ID: 3323

Type: **Invited Speaker** / **Conférencier(ère) invité(e)**

## (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 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.

**Author:** Dr BARKANOVA, Svetlana (Grenfell Campus, Memorial University of Newfoundland)

**Presenter:** Dr BARKANOVA, Svetlana (Grenfell Campus, Memorial University of Newfoundland)

**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)