



Canadian Association  
of Physicists

Association canadienne  
des physiciens et physiciennes

Contribution ID: 3492

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

## (I) The Complementary International EIC Experimental Program

*Tuesday 7 June 2022 09:00 (30 minutes)*

Understanding the properties of nuclear matter and its emergence through the underlying partonic structure and dynamics of quarks and gluons requires a new experimental facility in hadronic physics known as the Electron-Ion Collider (EIC). The EIC will address some of the most profound questions concerning the emergence of nuclear properties by precisely imaging gluons and quarks inside protons and nuclei such as their distributions in space and momentum, their role in building the nucleon spin and the properties of gluons in nuclei at high energies. In January 2020 the EIC received CD-0 and Brookhaven National Laboratory was selected as site, and June 2021 CD-1 was granted to the EIC Project. This presentation will highlight the experimental program, the plans to have two complementary general purpose detectors to be built by the vibrant international EIC user community around the world.

**Author:** ASCHENAUER, Elke-Caroline (Brookhaven National Lab)

**Presenter:** ASCHENAUER, Elke-Caroline (Brookhaven National Lab)

**Session Classification:** T1-6 Physics at the EIC Symposium: Electron-Ion Collider, An Overview (DNP) | Symposium sur la physique à l'EIC: collisionneur électrons-ions, un survol (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)