



Canadian Association  
of Physicists

Association canadienne  
des physiciens et physiciennes

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

## **(I) ATLAS Upgrades for the High-Luminosity Large Hadron Collider**

*Tuesday 20 June 2023 11:45 (30 minutes)*

The planned upgrade of the Large Hadron Collider to quadruple the luminosity requires a substantial corresponding upgrade to the ATLAS detector in order to continue to keep up with the challenging experimental conditions that high luminosity imposes. Canada is participating in a wide range of these planned upgrades, with a particular focus on a new silicon strip detector and upgraded electronics for the liquid argon calorimeter. Recent progress and achievements will be discussed, as well as prospects for the physics reach of the upgraded detector.

### **Keyword-1**

ATLAS

### **Keyword-2**

HEP

### **Keyword-3**

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**Session Classification:** (PPD) T2-3 Discovering New Paths to Discovery: New Technologies and Methods to Uncover BSM Physics Symposium | Symposium sur les nouvelles technologies et méthodes pour découvrir la physique au delà du modèle standard (PPD)

**Track Classification:** Symposia Day (Tues. June 20) / Journée de symposiums (mardi, le 20 juin): Symposia Day (PPD - PPD) - Discovering New Paths to Discovery: New Technologies and Methods to Uncover BSM Physics | Découvrir de nouvelles voies vers la découverte : Nouvelles technologies et méthodes pour découvrir la physique au-delà du modèle standard