Contribution ID: **468** Type: **Invited Speaker / Conférencier invité**

Advanced Instrumentation at TRIUMF

Tuesday 16 June 2015 15:45 (30 minutes)

TRIUMF operates the Isotope Separator and Accelerator (ISAC) rare isotope facility as well as the Centre for Molecular and Materials Science (CMMS), which uses muons and isotopes. The ISAC facility comprises 18 state of the art experiments for experimental programs in nuclear structure, nuclear astrophysics, and fundamental symmetries. CMMS features several state-of-the-art set-ups for muon spin rotation (MuSR) experiments as well as stations for beta detected NMR and NQR using rare isotopes. Most recently, the new electron linac, a cutting-edge superconducting RF accelerator and part of the Advanced Rare Isotope Laboratory (ARIEL), has just been commissioned. In addition to these user facilities TRIUMF carries out developments for a number of particle physics detector projects, including the ATLAS detector at the LHC, the long-baseline neutrino experiment T2K, and the nEXO next generation double beta decay project. The presentation will provide an overview of the facility and highlight selected projects.

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Session Classification: T3-8 Advanced Instrumentation at Major Science Facilities: Detectors I (DIMP) / Instrumentation avancée dans des installations scientifiques majeures: détecteurs I (DPIM)

Track Classification: Instrumentation and Measurement Physics / Physique des instruments et mesures (DIMP-DPIM)