



Contribution ID: 739

Type: **Invited Speaker / Conférencier invité**

Status and Prospects for Theoretical Studies of B-meson Decays

Thursday 18 June 2015 08:45 (30 minutes)

Physics beyond the Standard Model (BSM) affects low-energy processes such as meson decays through loop-suppressed contributions. Precision physics to separate loop-level corrections are therefore considered vital for the discovery of BSM physics at the intensity frontier. I will describe the current status of research in the field of B decays, concentrating on its role in establishing the Cabibbo-Kobayashi-Maskawa (CKM) paradigm, the theoretical difficulties in going beyond the CKM and how some of these problems may be overcome. The discussion will include the status and prospects of studying select meson-decay channels that may play a role in future discoveries of BSM physics.

Author: Dr BHATTACHARYA, Bhubanjyoti (University of Montreal)

Presenter: Dr BHATTACHARYA, Bhubanjyoti (University of Montreal)

Session Classification: R1-3 Status and Future of Precision Frontier (PPD-DTP-DIMP) / État et avenir de la frontière de précision (PPD-DPT-DPIM)

Track Classification: Particle Physics / Physique des particules (PPD)