



ID de Contribution: 128

Type: Ordinary

## Recent hot results (including semileptonic $b$ hadrons decays)

*dimanche 13 mars 2016 17:00 (15 minutes)*

The LHCb experiment has collected large samples of heavy flavoured hadrons during Run 1, corresponding to an integrated luminosity of  $3.0 \text{ fb}^{-1}$  at  $pp$  centre-of-mass energy of 7 and 8 TeV. Interesting results using semileptonic  $B$  decays have been published, amongst which are a novel measurement of  $|V_{ub}|$  and an enhanced branching ratio of semitauonic  $B^0$  decays. The latter is possibly hinting for new physics. LHCb has also reported the most precise measurements of the  $B^0 - \bar{B}^0$  mixing frequency and of  $CP$  violation in  $B^0 - \bar{B}^0$  and  $B_s^0 - \bar{B}_s^0$  mixing. A new measurement of  $CPT$  violation in  $B^0 - \bar{B}^0$  and  $B_s^0 - \bar{B}_s^0$  mixing (using hadronic  $B$  decays) will also be presented.

**Auteur principal:** Dr VAN TILBURG, Jeroen (Nikhef)

**Orateur:** Dr VAN TILBURG, Jeroen (Nikhef)

**Classification de Session:** Heavy Flavours

**Classification de thématique:** Experiment