

## Séminaire LAL

Matthew Kenzie (CERN)

Mardi 3 mal 2016 à 11h00

## Results of LHCb combination of CKM angle gamma

The CKM angle  $\gamma$  is the least well known constraint of the B0 unitarity triangle and is a vital measurement for understanding CP violation in the Standard Model. Any inconsistency between direct and indirect determination of  $\gamma$  would be a clear sign of new physics.

It can be accessed by, theoretically clean, tree level decays of B+->D0K+ and B+ -> D0bar K+, where the D0 and D0bar decay to the same final state. An updated combination of several LHCb measurements is presented for which  $\gamma$  is found to be (70.9 + 7.1 -8.5) degrees. This is the most precise single-experiment measurement of  $\gamma$  to date.

Salle 101 - Bât. 200, Orsay

Thé et café seront servis 5 mn avant le séminaire Organisation : Nicolas Delerue - Reisaburo Tanaka (LAL) - <u>seminaires@lal.in2p3.fr</u> http://www.lal.in2p3.fr



