



Contribution ID: 3

Type: talk

## Measurement of $\phi_s$ at LHCb

*Tuesday, 17 September 2013 10:00 (30 minutes)*

The study of CP violation in  $B_s$  oscillations is one of the key goals of the LHCb experiment. Effects are predicted to be very small in the Standard Model but can be significantly enhanced in many models of new physics. We present the world's best measurement of the CP-violating phase  $\phi_s$  using  $B_0^s \rightarrow J/\psi\phi$  and  $B_0^s \rightarrow J/\psi\pi\pi$  decays, and a first study of mixing-induced CP violation in the decay  $B_0^s \rightarrow \phi\phi$ .

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**Session Classification:** Working Group 3

**Track Classification:** Working Group 3