



Contribution ID: 50

Type: oral

Search for the rare decay B^0_s to $\mu^+ \mu^-$ with the D0 experiment

Friday, 15 October 2010 09:40 (20 minutes)

The result of a search for the rare decay B^0_s to $\mu^+ \mu^-$ using 6.1 fb⁻¹ of Run II data collected with the D0 detector at the Tevatron collider will be presented. When setting limits on the branching ratio, selected events are normalized to reconstructed $B^+ \rightarrow J/\psi K^+$ events in order to decrease the systematic uncertainty. Compared to the previous published D0 result, this new result is based on 4 times more analyzed data and on an improved background rejection using a multivariate discrimination technique.

Primary author: RIPP-BAUDOT, Isabelle (IPHC, Strasbourg)

Presenter: RIPP-BAUDOT, Isabelle (IPHC, Strasbourg)

Session Classification: Rare Decays

Track Classification: Rare Decays