



Contribution ID: 78

Type: **not specified**

Search for new physics in rare and semi-rare decays of B-mesons

Tuesday 12 April 2016 12:00 (15 minutes)

Processes involving the FCNC transitions in b-hadron decays are suppressed in the SM and are sensitive to new physics.

New results in the search for the rare decays of B_s and B_d into $\mu^+\mu^-$ are presented. They are based on the full sample of data collected by ATLAS at 7 and 8 TeV of collision energy. The consistency with the SM and with other available measurements is discussed.

The properties of the decay of the B_d meson into $K^*\mu^+\mu^-$ are relevant because of possible deviations from the standard model observed by LHCb. We present recent results obtained by ATLAS, concerning the angular distribution parameters FL , S_i and P_i in the region $Q^2(\mu^+\mu^-) < 6 \text{ GeV}^2$,

Primary author: Dr MARTI, Salvador (IFIC-Valencia (UVEG-CSIC))

Presenter: BEVAN, Adrian John (London QUML)

Session Classification: WG4 Heavy Flavours

Track Classification: Heavy Flavours (Charm, Beauty and Top)