



Contribution ID: 50

Type: **Oral contribution**

Angular analysis of the $B^0 \rightarrow K^* \mu \mu$ at CMS and ATLAS

Thursday, 20 April 2017 14:30 (15 minutes)

New Physics beyond the standard model (SM) can be revealed by analyzing processes which are expected to happen with very low probability in the SM: among these, the flavor-changing neutral current (FCNC) decay $B^0 \rightarrow K^* \mu \mu$ is particularly promising. Recent results from LHCb collaboration show that the expected values of the parameter P_5' differ by more than three standard deviations from the measurements in a well-defined interval of the dimuon invariant mass. We present the results of an angular analysis performed on the data collected by the CMS experiment at the LHC, from pp collisions at $\sqrt{s} = 8$ TeV, corresponding to an integrated luminosity of $L = 20 \text{ fb}^{-1}$. The values of the parameters P_1 and P_5' are measured as a function of the dimuon invariant mass and compared to the SM expectation.

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