ID contributo: **0** Tipo: **non specificato**

Flavor anomalies in B physics

martedì 20 dicembre 2016 10:00 (1 ora)

In the last few years, several interesting anomalies have been observed in B meson decays. First, some branching fractions and angular distributions in b −> s mu mu seem to disagree with current Standard Model predictions. Second, LHCb has reported a measurement of an observable sensitive to lepton-flavor non-universality which is different from zero at the 2.6 sigma level. This observable is a b−>s transition and the deviation is consistent with the anomalies in b −> s mu mu; thus this is very persuasive. Third, there is another hint of lepton-flavor non-universality in charged b −> c semileptonic exclusive transitions, which might be related to the one in b −> s. I will review these B-physics anomalies, paying attention to the theoretical uncertainties in the SM predictions, and to the new physics implications.

Relatore: VIRTO, Javier (Bern)