

# Università degli Studi di Trieste

## Dipartimento di Fisica - INFN

### Seminario

**Ilya Komarov**

EPFL Lausanne

July 7, 3.00 PM – Sala Riunioni, INFN, Area Science Park, Padriciano – Trieste

## Rare or medium-rare? Grilling new physics at the LHC.

Discrepancies between theory and measurements of lower-energy quantities may reveal virtual contributions of non-standard-model particles or interactions prior to their direct observation. Historically, such an “indirect” approach has been rewarding, especially in the study of the dynamics of heavy quarks. The LHCb experiment at the LHC proton-proton collider has access to the world’s largest samples of bottom-meson decays, which allow for probing processes of unprecedentedly low rates.

I introduce recent results on rare B decays, focusing on a few selected measurements that offer a glimpse on the analysis techniques typically used and have high potential to challenge the standard model.

**Contatti: prof. L. Lanceri, dr. D. Tonelli, dr. E. Vesselli**

**Everyone interested in the topic is welcome to attend**

Informazioni: [seminari@ts.infn.it](mailto:seminari@ts.infn.it)