

# **Theoretical Physics Seminars**

## **Rare B decays as a probe of New Physics**

**Speaker:** Ms. Bharti Kindra

**From:** Physical Research Laboratory, Ahmedabad

**When:** July 17, 2017 Monday 4:00 pm

**Place:** Room No. 469

Rare B decays have been used as testing grounds for the Standard Model. LHCb and Belle have measured optimized observables for B decaying to  $(K, K^*)ll$  and reported several anomalies. Theoretical predictions for these observables are made using non-perturbative QCD calculations which are often plagued with large uncertainties. One can associate the observed anomalies either to these uncertainties, or some New Physics. In this talk we give predictions for these observables for other rare B decay modes which can be used to confirm the presence of New Physics.

**All are welcome**