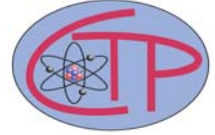




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics



Interplay between inclusive and exclusive $b \rightarrow s \ell \ell$ decays

Presented by:

Enrico Lunghi

Indiana University

Friday, January 29 at 2:30pm

Namm, Room 823

Abstract

I review the status of inclusive and exclusive semileptonic rare B decays ($B \rightarrow Xs \ell \ell$, $B \rightarrow K/K^* \ell \ell$). In the first part of the talk I briefly discuss in not too technical fashion the necessary theoretical tools. My aim is to provide the audience with a global picture of these tools and of where they might fail. In the second part I discuss the present (BaBar, Belle, LHCb data) and future (LHCb, Belle II) experimental prospects. In particular I focus on the current ~ 3 sigma tensions that LHCb observed.