



Contribution ID: 30

Type: **not specified**

## Progress in inclusive $B \rightarrow X_s \ell \ell$ phenomenology

*Friday 21 June 2024 09:00 (20 minutes)*

In this talk I will summarize the theory and phenomenology status of the inclusive penguin decay  $B \rightarrow X_s \ell \ell$ . In the high- $q^2$  (soft recoil) region above the narrow charmonium resonances, the inclusive rate is dominated by two exclusive modes  $B \rightarrow K^{(*)} \ell \ell$ . I will explain that this property of the spectrum provides an opportunity to apply the toolkit of inclusive B decays to results from LHCb as well as the B factories. I will also present a study of the hadronic mass cut dependence of the rate and forward backward asymmetry at low- $q^2$ , and discuss different strategies for normalizing the neutral-current decay to charged-current B decays.

**Presenter:** JENKINS, Jack (University of Siegen)

**Session Classification:** Day 4