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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.

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