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

New Physics searches with $b \longrightarrow s\ell\ell$ transitions

Presented by

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Thursday, September 23 at 12:00 noon

Join Zoom Meeting

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Over the last few years, the LHCb collaboration has been finding tensions between measurements and Standard Model predictions for several observables related to B-meson decays mediated by an underlying $b \to s\ell^+\ell^-$ transition. Other experiments at the LHC and the Belle collaboration have found consistent results, albeit with larger errors. These tensions have been identified as potential signs of New Physics and one approach to assess their significance is to perform global fits to all available $b \to s\ell^+\ell^-$ data. In this seminar, I will discuss the techniques used for the computation of the relevant observables in our fits and present the latest results of our global analyses and some of their implications.