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Implications of $b \rightarrow s$ measurements for model-building

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Recent measurements of rare decays based on the $b \rightarrow s$ transition, like $B \rightarrow K^* \mu^+ \mu^-$, $B_s \rightarrow \phi \mu^+ \mu^-$, and $B^+ \rightarrow K^+ \ell^+ \ell^-$, have shown various tensions with Standard Model expectations. This talk will give an interpretation of these measurements, assuming that they are due to new physics rather than underestimated hadronic effects. First, a model-independent global fit taking into account all the relevant experimental results and updated theoretical inputs will be presented. Second, the implications of the fit results for several models of new physics will be discussed.

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Classification de Session: Heavy Flavours

Classification de thématique: Theory