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Identifying New Physics through correlations in quark flavour violating processes

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I will review detailed analyses of flavour violation in a number of
extensions of the Standard Model performed in 2012 and 2013.
In addition to various model independent patterns of flavour violation originating in tree-level FCNCs mediated by Z', Z and heavy scalars I will present the results in a Minimal Theory for fermion masses. Particular emphasis will be put on correlations between various observables. In addition to Delta F=2 transitions most prominent rare B_d, B_s and K decays like $B_{s,d} \to \mu^+\mu^-$,
$B \to K(K*)\nu\bar{\nu}$ and $K \to \ pi\nu\bar{\nu}$ will be discussed.

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Session Classification: Flavour Physics and fundamental symmetries

Track Classification: Flavour Physics and Fundamental Symmetries