Portorož 2017: New physics at the junction of flavor and collider phenomenology

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The ϵ' anomaly: consequences for supersymmetry and $K \to \pi \nu \bar{\nu}$

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The measure epsilon' of direct CP violation in $K\to\pi\pi$ decays disagrees with the Standard-Model prediction by 2.8 standard deviations. It is possible to explain this discrepancy with supersymmetric contributions involving squarks and gluinos in the multi-TeV range. I discuss the footprint of this scenario on the rare decays $K+\to\pi+\nu$ $\bar{\nu}$ and $KL\to\pi0$ ν $\bar{\nu}$.

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