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Rare processes and precision measurements

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Exquisite experimental measurements over the last two decades have allowed us to precisely extract fundamental parameters of the Standard Model and
to uncover new physics, in the form of nonzero neutrino masses.
These remarkable advances have been made possible by the theoretical foundations in hadronic physics. I will illustrate this on a number of specific examples, including lepton flavour violation,
measurement of the anomalous magnetic moment of the muon
and search for light dark matter. Demands on hadronic physics will only increase in the future,
with flavour violating searches
at the LHC and BELLE II and g-2 and mu2e experiments at FermiLab.

session

K. Precision and New Physics

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