Contribution ID: **272** Type: **Talk**

Insisting on the role of experimental data: the pseudoscalar-pole piece to the $(g_\mu - 2)$ and the $|V_{ub}|$ from $B \to \pi\ell\nu_\ell$ and $B \to \eta^{(\prime)}\ell\nu_\ell$ differential branching rations

Thursday 28 September 2017 15:55 (20 minutes)

We employ a mathematical framework based on rational approximants
in order to calculate meson form factors. The method profits
from unitary, is systematic and data based, and is able to ascribe a
systematic uncertainty which provides for the desired model independence.
Two examples are discussed: the pseudoscalar-pole piece of the
hadronic light-by-light contribution to the anomalous magnetic moment
of the muon, and the B ⟶ πν and B– ⟶ η
(0)
–ν differential
branching ratios which allows to determine both the |Vub| and the η-η
0
mixing.

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Session Classification: Hadron decays

Track Classification: Hadron decays