Hadronic Contributions to New Physics Searches 2019



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An Effective Field Theory framework combined with a Froggatt-Nielsen like power counting for flavour and B anomalies

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We present a formalism to extend the well-know Minimal Flavour Violation approach for physics beyond the Standard Model. As a guideline for the flavour pattern we adopt a Froggatt-Nielsen inspired power counting. We study the phenomenological implications when taking into account the spurions associated with a U_1 vector leptoquark and their compatibility with flavour data and the anomalies in B decays. As a result of our analysis we observe that leptonic B decays constitute an important test to probe these scenarios.

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