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【346】 Search for violation of leptonic universality in Semileptonic Hyperon Decays in LHCb

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Theoretical studies have demonstrated that Semileptonic Hyperon Decays (SHD) can be sensitive to BSM dynamics that break lepton flavour universality (LFU). The LFU test observable, defined as the ratio between muon and electron modes, is sensitive to non standard contributions.

This talk will present the current status of the $\Lambda \rightarrow p\mu^-\bar{\nu}_\mu$ branching ratio measurement using Run 2 LHCb data. Additionally, prospects for other SHD measurements will be discussed.

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