



# EINLADUNG

im Rahmen des Teilchenphysikseminars

zum Vortrag

von

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über

***„Discovering New Physics with Flavour“***

**Abstract:**

In the last years very intriguing hints for New Physics (NP) in the flavour sector have been accumulated. In particular, deviations from the Standard Model predictions in semi-leptonic B decays were discovered, pointing strongly towards the violating of lepton flavour universality (LFU). These hints for NP could be related to the long standing discrepancy in the anomalous magnetic moment of the muon which also measures LFU violation. After reviewing the current experimental und theoretical situation, I will discuss possible NP models which can explain the anomalies. As it turns out, leptoquarks are prime candidates for such an explanation und I will present some interesting UV completions, including one based on the famous Pati-Salam gauge group.

**Zeit:** Dienstag, 07.01.2020 **16:15**

**Ort:** Erwin-Schrödinger-Hörsaal, Boltzmanngasse 5, 5. Stock

gez.: A. Hoang, S. Plätzer, M. Procura