Particle Physics
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I N V I T A T I O N

as part of the Particle Physics Seminar

to the talk by

Jack JENKINS

(University of Siegen)

on

"Semileptonic decays at the frontier"

Abstract:

In this talk I will outline some of the challenges facing higher-precision extractions of CKM matrix elements and effective neutral-current couplings from inclusive B decays and rare semileptonic kaon decays, which persist despite increasingly precise perturbative information for these quantities. In the B sector, phenomenological extractions of local power correction parameters are the largest bottleneck for testing the SM with the rare mode B->X ll, and I outline an approach to scrutinize their extraction from kinematical moments of charged-current B decays. I will also discuss a dispersive approach to the nonlocal contribution to rare kaon decays K->pi ll and K->pi nu nu, and similar strategies based on chiral dynamics applied to the B -> pi form factors at high recoil.

Time: Tuesday, 11 March 2025, 4:15 p.m.

Location: Erwin-Schrödinger Lecture Hall, 1090 Vienna, Boltzmanngasse 5, 5th floor

Join Zoom Meeting - Meeting ID: 933 4269 3866 Passcode: 185096
https://univienna.zoom.us/j/93342693866?pwd=aUpTR0VJNUhJY2Q0ajdaKzI1YWVBQT09

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