technische universität
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SEMINAR TEILCHENPHYSIK

Thema

Probing Hidden Physics From Neutrinos to Flavor

Abstract

The flavor structure of the Standard Model exhibits a rich and nontrivial pattern. The discovery of neutrino oscillations demonstrates that flavor mixing is not confined to the quark sector. The CP asymmetries observed in hadron decays, including both mesons and baryons, are too small within the Standard Model to account for the observed matter–antimatter asymmetry. Neutrino mixing, however, offers a potential new source of CP violation and a window into previously unexplored regions of parameter space. By combining searches for novel neutrino signals with precision measurements in the flavor sector, we can constrain fundamental parameters, probe subtle effects, and advance our understanding of the underlying structure and dynamics of elementary particles.

Vortragender

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Ort

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Zeit

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12:15 – 13:15 Uhr

im Auftrag:

Dr. Maik Becker