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Exploring the Frontiers: Experimental Endeavors in Charged Lepton Flavor Violation

Monday 13 May 2024 14:00 (30 minutes)

Charged Lepton Flavor Violation (cLFV) stands as a compelling frontier in the realm of particle physics, offering a unique window into the mysteries of flavor physics beyond the Standard Model. I will provide a comprehensive overview of the current experimental landscape and future prospects.

A survey of ongoing experimental efforts will be presented, highlighting recent breakthroughs and advancements in the field. Various experiments, ranging from high-energy accelerators to precision low-energy experiments, will be discussed, shedding light on the diverse strategies employed to detect elusive cLFV signals.

Furthermore, the talk will delve into the challenges faced by experimentalists and the ingenious techniques developed to overcome these obstacles. Emphasis will be placed on the interplay between theory and experiment, underscoring the importance of a collaborative approach in pushing the boundaries of our understanding.

In anticipation of the future, the presentation will explore upcoming experiments and their potential to provide crucial insights into cLFV. Novel technologies, experimental designs, and anticipated sensitivities will be discussed, offering a glimpse into the promising avenues that lie ahead.

By the end of the talk, attendees will gain a thorough appreciation of the dynamic landscape of experimental efforts in charged lepton flavor violation.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

Presenter: PEZZULLO, Gianantonio (Yale University)

Session Classification: Minisymposium