Special Issue

Charged Lepton Flavor Violation

Message from the Guest Editors

Charged lepton flavor violation (CLFV) refers to transitions among leptons without conservation of the lepton family number. CLFV probes the physics of flavor and of generations. The charged quarks mix their families according to the CKM matrix and neutrinos, neutral leptons, mix through neutrino oscillations. Unlike quarks and neutrinos, charged lepton mixing does not occur in the Standard Model. Hence, its discovery is an unambiguous signal of new physics. CLFV can arise from a variety of sources: SUSY, leptoquarks, multiple Higgs sectors, or heavy neutrinos are just some examples. The search for CLFV is closely related to studies of flavor universality and anomalous lepton moments. The theory community is actively engaged in studying flavor physics. Current and planned experiments search for CLFV in all three lepton families in both fixed target experiments and both e+e- and hadron colliders. This Special Issue of *Universe* surveys the theoretical and experimental landscape and how our understanding of CLFV could evolve over the next several decades.

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

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