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Multi-Messenger Collider Physics at the Forward Physics Facility

Wednesday 15 May 2024 16:00 (30 minutes)

The recent detection of neutrinos at the LHC has ushered in a new era of multi-messenger collider physics. The Forward Physics Facility is an underground cavern that will allow the LHC to fully exploit this new capability in the HL-LHC era. The FPF will house several experiments, which will detect thousands of TeV-energy neutrinos each day, with far-reaching implications for neutrino physics, QCD, and astroparticle experiments. In addition, the FPF will enhance the LHC's potential to detect new, weakly-interacting particles. In this talk, I will introduce the physics motivations for the FPF and present the latest updates to the FPF's plans and timeline.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Session Classification: Minisymposium