

The Forward Physics Facility and Its Experiments

Friday 19 July 2024 14:30 (17 minutes)

The Forward Physics Facility (FPF), is a proposed underground cavern that will greatly expand the LHC's physics potential in the HL-LHC era. The FPF will house several experiments, including FASER2, FASERnu2, Advanced SND, FORMOSA, and FLArE. These experiments will detect thousands of TeV-energy neutrinos per day, with far-reaching implications for detecting BSM physics in neutrinos, QCD studies, and astroparticle connections. In addition, the FPF will transform the LHC's potential to detect new, weakly-interacting particles. In this talk, we will review the physics motivations for the FPF, give a status update on the FPF and its experiments, and present the latest updates to the FPF's plans and timescale.

Alternate track

I read the instructions above

Yes

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Session Classification: Detectors for Future Facilities, R&D, Novel Techniques

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