

Phenomenology 2021 Symposium



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Forward Physics Facility

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A rich physics program remains unexplored in the far-forward region at the LHC. The Forward Physics Facility (FPF) is a proposal to enlarge an existing cavern in the far-forward region of ATLAS to house a suite of experiments with groundbreaking new capabilities for neutrinos, long-lived particle searches, milli-charged particle searches, QCD, dark matter, dark sectors, and cosmic rays. The FPF will be located 500 m from the ATLAS interaction point. It is shielded from the ATLAS interaction point by 100 m of concrete and rock, creating an extremely low-background environment, ideal for many standard model studies and new physics searches. In this talk, we describe the FPF's location and general features, its physics potential in the HL-LHC era, and topics for further study.

Summary

Author: KLING, Felix (SLAC)

Presenter: KLING, Felix (SLAC)

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