

Overview of New physics searches at the Forward Physics Facility

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High energy collisions at the High-Luminosity Large Hadron Collider (LHC) produce a large number of particles along the beam collision axis, outside of the acceptance of existing LHC experiments. The proposed Forward Physics Facility (FPF), to be located several hundred meters from the ATLAS interaction point and shielded by concrete and rock, will host a suite of experiments to probe Standard Model (SM) processes and search for physics beyond the Standard Model (BSM). In this talk, we will review the BSM physics case of the FPF which corresponds to a broad range of new physics models that can be probed through searches for new particle scattering, decay, and ionization signature.

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