

## Overview of ATLAS Forward Proton Detectors: Status, Performance and Physics Results

A key focus of the physics program at the LHC is the study of head-on proton-proton collisions. However, an important class of physics can be studied for cases where the protons narrowly miss one another and remain intact. In such cases, the electromagnetic fields surrounding the protons can interact producing high-energy photon-photon collisions. Alternatively, interactions mediated by the strong force can also result in intact forward scattered protons, providing probes of quantum chromodynamics (QCD). To detect and measure these events, the ATLAS Forward Proton (AFP) detectors are installed far downstream of the interaction point, capturing protons scattered at very small angles. This talk will give an overview of the AFP detectors, with a focus on the performance of its systems. We will also provide a glimpse of physics results published by now.

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