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The ATLAS Forward Detectors LUCID, ALFA and AFP – Past, Present and Future

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LUCID is a gas Cerenkov detector deployed near to the beam-pipe at 17 m either side of the ATLAS Intersection point. The LUCID detector - when calibrated via a Van der Meer scan - is now measuring absolute luminosity on a bunch-by-bunch basis. It is now measuring integrated luminosity up to high luminosity with a precision of around 3%. The technical challenges that had to be faced to make this measurement as well as upgrade plans for LUCID will be presented. In addition to LUCID, we will discuss that ALFA detector (Absolute Luminosity for ATLAS) and its status as well as the progress on the ATLAS Forward Protons project (AFP) that plans to deploy detectors to tag and measure, with 3-D silicon detectors, both protons in exclusive central diffractive processes.

quote your primary experiment

ATLAS

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