



detector seminar

SPEAKER: Maciej Trzebinski
TITLE: **The ATLAS Forward Proton Detector**
DATE: 1 Dec 2017, 11:00
PLACE: 40-S2-D01 - Salle Dirac

ABSTRACT

ATLAS Forward Proton (AFP) is a dedicated system for measurement of protons scattered at small angles. Such protons are produced when a colourless object - photon (electromagnetic) or Pomeron (strong interaction) - is exchanged. Thus, they may be a signature of so-called diffractive and 'beyond Standard Model' physics. First set of AFP detectors was installed during the YETS'16. Since 2017, a full system is ready for data taking. It consists of silicon trackers (SiT) and very fast Time-of-Flight detectors (ToF) installed in Roman pots. Such technology allow detector positioning very close (few mm) to the beam which is needed to have an acceptance for scattered protons. In this talk, details of the commissioning, performance and operational history of the currently installed hardware and upgrade plans for LS2 will be presented.