Laboratório de Instrumentação e Física Experimental de Partículas

LIP Seminar

Thursday, 30 April, 11h30

Probing the Standard Model (and more) with Forward Proton Tagging at ATLAS

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(LIP)

The capability to tag diffracted protons at very small angles enlarges the ATLAS physics programme with a wide variety of new topics, such as diffractive physics processes, measurements of triple and quartic gauge boson couplings and searches for new physics. Forward proton tagging in ATLAS is done with the ATLAS Roman Pot detectors ALFA and AFP, placed at around 200 m on both sides of the interaction point, both of them with different capabilities and operating in different conditions.

In this presentation, I will describe the ARP detectors and I will give an overview of the physics possibilities with forward proton tagging in ATLAS.

Location: Videoconference - Zoom
https://indico.lip.pt/event/691/
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