

## The ALICE Forward Diffraction Detector

*Monday, 13 January 2020 14:00 (50 minutes)*

ALICE (A Large Ion Collider Experiment) is an experiment placed at point two of the LHC accelerator and was suited to study mainly the Quark-Gluon Plasma properties, having excellent particle identification capacities. During Run-2 of the LHC the ALICE Diffractive (AD) detector was installed to extend the pseudorapidity coverage of ALICE to increase the capacities to trigger diffractive and ultraperipheral events. This detector consists of two plastic stations, made of two layers of plastic scintillator pads, placed in forward regions on each side of the interaction point.

The ALICE experiment is making a significant upgrade of its detectors and systems during the second long shutdown (LS2) of the LHC. The Forward Diffractive Detector (FDD) is the upgrade of AD to fulfil the new requirements of the LHC conditions and the new ALICE environment. FDD keep the same geometry and placement of its predecessor but with improvements in materials used for its construction and will be part of Fast Interaction Trigger system.

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**Session Classification:** Talks in English