



# detector seminar

**SPEAKER:** Nicola Turini (Universita di Pisa & INFN (IT))

**TITLE:** **New TOTEM Roman Pot timing detectors**

**DATE:** Fri 10/07/2015 11:00

**PLACE:** Salle Anderson

## **ABSTRACT**

The Totem physics program for the run2 of the LHC required an upgrade of the experiment infrastructure to improve the sensitivity to Central Diffractive processes. One of the milestones to get rid of the pileup with higher luminosities in special runs is the installation of a time-of-flight detector to reconstruct the longitudinal position of the p-p vertex and correlate it with the vertices reconstructed by the central CMS tracking.

Here we present the timing detector, based on diamond sensors, developed for this purpose. We foresee a preliminary test in the LHC tunnel before the winter shut down and the full installation in the first six months of 2016.

*Note that vidyo will be provided on a best-effort basis, as long as it will not disturb or delay the seminar.*