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The INFN Pixel R&D: new detectors for the High Luminosity Upgrade of the LHC

Thursday, April 20, 2017 11:00 AM (20 minutes)

The talk will report on the INFN ATLAS-CMS joint research activity in collaboration with FBK, which is aiming at the development of new thin pixel detectors for the high luminosity upgrade of the LHC (HL-LHC). The talk will cover the main aspects of the research program, including the sensor design and fabrication technology. The RD covers both planar and 3D, made with columnar technology, pixel devices. It is targeting low thickness n-in-p type sensors, since this is the mainstream foreseen for the HL-LHC pixel upgrades. Hybrid modules, with 100μm and 130μm active thickness, connected to the present CMS and ATLAS readout chips, have been tested with beam and preliminary results will be presented in this talk.

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