

8th "Trento" Workshop on Advanced Silicon Radiation Detectors (3D and p-type)

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3D modules production for the IBL detector

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The first upgrade of the ATLAS Pixel Detector will consist in the installation of a new pixel layer during the shutdown of

the LHC machine in 2013. The new detector, called Insertable B-Layer (IBL), will be inserted between the existing Pixel Detector and a new (smaller radius) beam-pipe, at an average sensor radius of 3.4 cm. The IBL requires the development of several new technologies to cope with the increase of radiation and pixel occupancy at such a reduced radius. In particular 3D sensors will be installed in the outermost part of the new detector.

An overview of the 3D sensor production for IBL done at CNM and FBK will be given, together with first results after module integration with FE-I4 and full assembly.

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Session Classification: Running and upcoming experiments