

Characterization before and after irradiation of RD53A planar pixel modules

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Pixel modules built with thin n-in-p planar sensors, produced at MPG-HLL, interconnected to RD53A read-out chips, have been characterized before and after irradiation. Different sensor design have been implemented, to optimize the performance in view of the application of these type of devices in the trackers at HL-LHC. The results in term of hit efficiency obtained in beam tests at CERN SPS will be presented, with modules irradiated up to a fluence of 5×10^{15} neq/cm².

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