

First measurements on mixed-irradiated mini strip sensors and outlook to Lorentz angle studies as part of the CMS-HPK Campaign

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As part of the CMS-HPK Campaign, Lorentz angle measurements on irradiated mini strip sensors will be performed. For that, floatzone mini sensors of three different thicknesses and different doping type (p-in-n, n-in-p with p-stop and p-spray) were irradiated with neutrons and protons to several fluences up to 1.4×10^{16} neq/cm². During the pre-qualification process, IV and CV measurements were done before and after each irradiation step. Development of leakage current and full depletion voltage will be shown, as well as an outlook to the Lorentz angle studies.

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