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[C02] RD53 pixel chips for ATLAS and CMS phase II upgrades

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The RD53 collaboration is designing the pixel front end chips for the inner tracker detector upgrades of both ATLAS and CMS for High Luminosity operation at the Large Hadron Collider (LHC). This region is very challenging due to high event pileup, total ionising dose and single event effects. This contribution presents the chip design including analogue blocks, digital functions and protection against single event effects. It concludes with selected recent chip testing results.

contact person e-mail

jaya.john.john@cern.ch

Primary author: JOHN, Jaya John (University of Oxford (GB))

Presenter: JOHN, Jaya John (University of Oxford (GB))

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