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[B12] Upgrade of the ALICE Inner Tracking System for LHC Run 4

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The ALICE experiment is preparing the ITS3, an upgrade of its Inner Tracking System for LHC Run 4. The three innermost layers will be replaced by wafer-scale, truly cylindrical, ultra-thin detector layers, made of Monolithic Active Pixel Sensors. This innovative technology will permit to reduce the material budget even further and to improve the tracking and vertexing capabilities. We will present the R&D programme, including the already achieved demonstration of the operability of bent MAPS, results of first measurements on new developed 65 nm CMOS technology, chosen for ITS3, and future plans.

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