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The Monopix detectors — CMOS pixel detectors with large and small electrodes

Tuesday, 18 February 2020 09:00 (40 minutes)

The development of radiation hard, depleted monolithic active pixel sensors (DMAPS) over many years has led to full size detector matrices, realised in LFoundry 150 nm and TowerJazz 180 nm technologies.

Large and small electrode designs have been investigated and characterised, with different readout schemes, in a collaboration between Bonn-CERN-CPPM-IRFU. The talk will present the results of these developments with respect to design features and performance with a focus on the chips with column-drain readout realised in the large chips LF-Monopix1 and 2 as well as TJ-Monopix1 and 2.

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