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## **【431】 eTCT studies and Thermal Characterisations towards the ITK Phase II Upgrade**

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The ATLAS experiment is planning a major upgrade of its tracking detectors during the Phase-II LHC shut-down, to better take advantage of the increased luminosity of the HL-LHC. To this end, new CMOS sensors are being developed. The Edge-Tracient Current Technique (eTCT) measurement method and its latest subsequent preliminary results on the TowerJazz 180nm CMOS technology sensor are presented. New mechanical supports (or staves) are also being prototyped, the thermal characterisations methods and readout system for which are also discussed.

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