

# Eleventh International Workshop on Semiconductor Pixel Detectors for Particles and Imaging



ID de Contribution: 123

Type: **Invited**

## Pixel sensors for ground and space astronomical observatories

*lundi 18 novembre 2024 14:00 (40 minutes)*

Pixel sensors will face new challenges to provide the enhanced performances required by the next generation of ground and space astronomical observatories. Dedicated pixel CMOS sensors are now competing with the traditional CCD designs, offering opportunities for new readout methods. On the other hand, the study of CCD sensor characteristics allows to reach the precision required by surveys like the Legacy Survey of Space and Time, and new developments in CCD designs promise improvements in both readout noise and readout speed. In the near infra-red, several high-profile current and next-generation projects rely on hybrid detectors, a technology which still presents significant challenges for precision measurements.

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**Classification de Session:** Astrophysics applications

**Classification de thématique:** Invited speakers