Eleventh International Workshop on Semiconductor Pixel Detectors for Particles and Imaging



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CMOS image sensors for scientific, medical and life science applications

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CMOS image sensors nowadays the dominant imaging technology, are being deployed in many applications, from consumer to machine vision, from industrial to automotive. They are now also used in scientific as well as medical and life science. In these fields, the requirements can be as varied as very low noise for scientific applications, or area coverage for medical and speed for life science. In this talk we will review the status of the CMOS technology in general, before focusing on the requirements on the applications listed in the title. The status of scientific CMOS image sensors, often referred to as sCMOS, will be reviewed. For medical and life science, we will focus on the state of the art for wafer-scale sensors, reviewing the performance of existing sensors and going beyond what exists today to look at future trends of these type of sensors.

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Classification de thématique: Invited speakers