



SPEAKER: Petra Riedler
TITLE: **Monolithic Silicon Pixel Detectors in HEP – Overview and Status**
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ABSTRACT

Silicon pixel detectors are used as inner tracking detectors in many High Energy Physics (HEP) experiments providing precise tracking information in the regions close to the interaction point. While most present systems are based on hybrid silicon pixel detectors, the development of monolithic silicon pixel detectors has made significant progress in recent years. This talk will provide an overview of the various developments for monolithic silicon pixel detectors and will describe in particular the progress of the ALICE ITS upgrade. Furthermore, possible developments that will allow to include monolithic pixel detectors in high radiation environments will be discussed.