

11th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors (HSTD11) in conjunction with 2nd Workshop on SOI Pixel Detectors (SOIPIX2017) at OIST, Okinawa, Japan

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## The HL-LHC experiments

*Monday 11 December 2017 09:35 (30 minutes)*

The talk will discuss the experiments planned for the High Luminosity LHC with dedicated focus on the silicon based systems. The special aspects to cope with the new environment and its challenges, e.g. very high radiation and very high instantaneous luminosity thus high pile-up, high occupancy and high data rate will be addressed. In this context, also exiting topics like Tracker, high granularity silicon-based calorimetry, fast timing and new triggers will be described.

**Author:** HARTMANN, Frank (KIT - Karlsruhe Institute of Technology (DE))

**Presenter:** HARTMANN, Frank (KIT - Karlsruhe Institute of Technology (DE))

**Session Classification:** Session1

**Track Classification:** Large scale applications