10. Annual MT Meeting



Contribution ID: 21

Type: not specified

HV-CMOS Sensor for the LHCb upgrade

Thursday 19 September 2024 11:30 (18 minutes)

LHCb experiment plays an important role in the study of rare decays of hadrons with heavy quarks, and in the search for interactions and particles beyond the Standard Model.

Upgrade II of the experiment would enable data taking during the high luminosity phase. A hybrid tracking detector, consisting of scintillating fibers in the outer region and HV-CMOS pixel sensors in the inner region is considered to be the most promising concept for the tracking system of the Upgrade II. The focus of our group at KIT (ADL) would be the development of the HV-CMOS sensor chip for this detector. The installation of the detector is foreseen for the Long Shutdown 4 (2033-35).

Speed talk:

Presenters: HIRONO, Toko (FS-DS (Detektorsysteme)); HIRONO, Toko; HIRONO, Toko (KIT) **Session Classification:** Stream 3