Contribution ID: 20 Type: not specified

## Working points of UFSD sensors at HL-LHC

Tuesday, 19 November 2019 14:25 (20 minutes)

In this contribution, I will review our current understanding of the working points of UFSDs manufactured by HPK and FBK during the lifetime of the CMS and ATLAS timing layer detectors. Specifically, I will point out the achievable time resolution as a function of fluence, including the effect of the leakage current Shot noise.

Primary authors: SADROZINSKI, Hartmut (SCIPP, UC santa Cruz); SEIDEN, Abraham (University of Cali-

fornia, Santa Cruz (US)); CARTIGLIA, Nicolo (INFN Torino (IT))

**Presenter:** CARTIGLIA, Nicolo (INFN Torino (IT))

Session Classification: Precision Timing Detectors - LGADs