The DAQ and clock distribution system of CMS MIP Timing Detector

Polina Simkina
on behalf of the CMS collaboration

- The new timing detector with ~30 ps time resolution at HL-LHC start and ~60 ps at 3000 fb-1.
- The DAQ system is being built using the **state-of-the-art ATCA board** with two high speed Xilinx FPGAs.
- **Versatile software framework** developed to be used with both sub-detectors.
- Results on:
  - Clock distribution measurements.
  - DAQ system tests.
- And more!

BTL: LYSO crystals and SiPM
ETL: LGAD sensors

Serenity board