

## Workshop on Advanced Radiation Detector and Instrumentation in Nuclear and Particle Physics (Online)



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Type: Talk

### Interaction with calorimeters, triggering and data analysis at the CMS detector

*Thursday 28 October 2021 15:00 (30 minutes)*

LHC open an unprecedented window on the weak-scale nature of the universe, providing high-precision measurements of the standard model as well as searches for new physics beyond the standard model. The Electromagnetic Calorimeter (ECAL) of the CMS detector has plays an important role in the physics program of the experiment, delivering outstanding performance throughout data taking. Such precision measurements and searches require information-rich datasets with a statistical power that matches the high-luminosity provided by the LHC. Efficiently collecting those datasets is a challenging task and is performed by two-level triggering system - hardware trigger (Level-1) and software based (high level trigger).

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**Session Classification:** Young Scientist Talks

**Track Classification:** Silicon Detectors in Particle Physics