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REALTIME TRIGGERING APPLIED TO NOVEL CALORIMETRY TECHNOLOGIES

Thursday, 26 August 2021 09:50 (50 minutes)

New calorimeter systems based on new fine-grained technology are developed for High Luminosity LHC. The associated real time triggering system with a strengthened decision/filtering potential as well as perspectives for the future machines will be presented in this lecture.

Dr. Alexandre Zabi got his PhD in 2004 on the D0 experiment at the Tevatron at FNAL, (USA), at the LAL Laboratory in Orsay. He was then appointed as a CNRS Researcher by the Laboratoire Leprince Ringuet (LLR) at Ecole Polytechnique to join the CMS experiment. He is carrying his research activities on both the Physics analysis and the development of the first level Triggering of CMS. In particular he has a leading role on the development of the upgrade of the Trigger for the challenging forthcoming HL-LHC phase, including the new Endcap high granularity calorimeter.

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