

6th Summer School on INtelligent signal processing for FrontIer Research and Industry



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NEW HIGH PERFORMANCE TIMING DETECTORS

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New timing detector technologies are developed for the High Luminosity LHC upgrades of both ATLAS and CMS experiments. They represent a new breakthrough in this detectors technology also very promising for the future experiments and also for other fields of application.

Prof. Tommaso Tabarelli de Fatis received his PhD at the Università degli Studi di Milano working on the DELPHI experiment at the LEP electron-positron accelerator at CERN. He pursued on DELPHI as postdoc and then INFN researcher while starting also an involvement in the development and construction of the CMS experiment for the LHC at CERN in the early 2000's. Several involvements among which various responsibilities on the electromagnetic calorimeter at CMS. Since 2014, PI of the i-MCP R&D project on picosecond timing of high-energy photons (INFN grant CSN-5); co-coordinator of the Fast-Timing Working group in the CMS collaboration; also various contributions to the Physics analysis in CMS. Associate Professor Professor at Milano-Bicocca University from 2004 to 2015 and Full Professor since 2016.

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Session Classification: MORNING SESSION 3, PLENARY LECTURES