



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

*Online-registration to the lab
sessions
on the school website*

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

22 August 2021 to 5 September 2021

Autonoma de Madrid

Europe/Madrid timezone



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[List of Lecturers and Lab organisers](#)

Support

 jose.delpeso@uam.es

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Registration

Lab sessions Registration



Registration is open

Deadline 3 Sep 2021

Personal Data

First Name *

Last Name *

Email Address *

The registration will be associated with your Indico account.

FEE-oriented Labs

FEE-oriented Labs

RD53 Pixel Front-End Characterization

FD-SOI Pixel Detector

Thin Moderate Gain Ultrafast Timing detectors

Introductory Computer Lab to Silicon Photonics Integrated Circuits

Artificial Intelligence-on Chip Physics Driven Hardware Co-design

Data Transmission

Quantum Communication Lab

Fast clock transmission systems for HL-LHC

Light Detection & Ranging (LiDAR)

Getting started with µcontrollers

Test Bench-Marking Platforms

PARTICLE PHYSICS

Charged Particle Track Reconstruction in an FPGA

Triggerless system: HLT GPU based

IA tools & real-time HEP Trigger

High Granularity Calorimeter Signal Processing, with M.L. based

Reconstruction in the CMS HGCAL

EASy-Silicon Strip Sensor Testbench

Test Bench-Marking Platforms

ASTROPHYSICS/COSMO

Dark Energy Spectroscopic Instrument (DESI): Quasar Identification

Characterization of a CCD (Charge-Coupled Device) Camera

Remote Astronomical observations with a 50 cm Telescope at Observatoire de Haute Provence (IRiS), After Lab hours (night)

Medical Labs

Clinical Positron Emission Tomography/Magnetic Resonance

Imaging: Acquisition and Quantification

In Silico Study Deep Brain Stimulation (DBS)

Irradiation of a Biomaterial using a Proton Beam and characterization of the damage produced for protontherapy pre-clinical studies

New Digital SiPM for PET-MRI

Electronics for Portable Reflectance Pulse Oximetry and Electrocardiography systems

Accelerators-Technology

Designing a Superconducting Magnet

Applied Superconductivity

Beam Dynamics for CMAM Accelerator

Theory Masterclass

Can We Feel The
Dark Matter?

Higgs Physics in the
Standard Model and
beyond

Computational Labs

Quantum Computing
Lab: Enjoying the IBM
Quantum Experience

*(All the fields marked with * are mandatory)*

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