

# FATA 2025

## FAst Timing Applications for Nuclear Physics and Medical Imaging

### Second Circular

The second edition of the Conference “FAst Timing Applications for Nuclear Physics and Medical Imaging”, will be held in Catania and Acireale on 8<sup>th</sup>-10<sup>th</sup> October 2025.

The Conference is aimed at gathering scientists working either in fundamental physics or in medical applications and imaging with a common background in the fast timing with discrete or/and hybrid technologies.

Two **open** special sessions will be dedicated to the memory of Angelo Pagano.

The first one in Catania, on October 8<sup>th</sup> at the Conference opening, focused to his scientific contribution and the second one in Acireale (his hometown), hosted at *Accademia degli Zelanti*, on October 9<sup>th</sup> afternoon, devoted to his effort to promote science outside the scientific circles in connection with local institutions and territorial communities.

The Conference is organized by the Istituto Nazionale di Fisica Nucleare (INFN) Sezione di Catania and Laboratori Nazionali del Sud (LNS), the Dipartimento di Fisica e Astronomia “Ettore Majorana” and the Centro Siciliano di Fisica Nucleare e Struttura della Materia (CSFNSM) in Catania.

### General Information and Scientific Program

The Conference will focus on the most recent developments of fast-timing techniques for applications of radiation detectors in the fields of experimental nuclear physics and medical applications, covering the following topics:

- Scintillators and photodetectors for fast timing readout electronics for ultrafast detectors
- Solid-state detector technology for fast timing processing of time-stamped data
- Precise event-time tagging in high luminosity accelerators towards picoseconds
- Time-of-flight (TOF) resolution
- Time-of-flight positron-emission tomography (TOF-PET) for medical imaging and monitoring of hadron therapy
- Fluorescence microscopy techniques in including time-resolved imaging.

Participation in the workshop by students, PhD candidates, postdocs, technical staff and engineers is strongly encouraged.

The detailed Scientific Program will be published on the Conference website at the beginning of September.

## **KEYNOTE SPEAKERS**

**Paolo Bianchini, Istituto Italiano di Tecnologia, Italy**

**Alberto Diaspro, University of Genova & Istituto Italiano di Tecnologia, Italy**

**Paul Lecoq, CERN, Switzerland**

**Rok Pestotnik, Jožef Stefan Institute, Ljubljana, Slovenia**

**Emanuele Vardaci, University “Federico II” and INFN- Napoli, Italy**

## **Logistics and Social Events**

Information and details on how to reach the Conference venue, transportation as well as accommodation options will be given on the website of the Conference.

On October 9<sup>th</sup> at 2 PM, a private bus will bring conference participants to the *Accademia degli Zelanti* in Acireale, where the Conference will be hosted.

On October 9<sup>th</sup> at 8PM, Social Dinner will be held in one of the beautiful locations on the coast.

## **Registration**

Anyone wishing to attend the Conference is invited to register on the dedicated website by September 15<sup>th</sup>, 2025.

The registration fee is 300 € payable by card or by cash at the conference desk, including coffee breaks, lunches, social dinner, and a copy of the workshop proceedings. There will be no fee for undergraduate students.

Participants using INFN funds must pay the fee by using internal transfer.

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