

FATA2023

FAst Timing Applications for Nuclear Physics and Medical Imaging

Catania-Italy, 2nd - 5th October 2023

First Circular

We are glad to announce the second edition of the conference on “**FAst Timing Applications for Nuclear Physics and Medical Imaging**”, to be held in Catania on 2nd -5th October 2023. The conference is aimed at gathering together scientists working either in fundamental physics or medical and cultural applications and imaging with a common background in the fast timing with discrete or/and hybrid technologies.

The Conference is organised by the Istituto Nazionale di Fisica Nucleare (INFN) Sezione di Catania and Laboratori Nazionali del Sud (LNS) together with the Dipartimento di Fisica e Astronomia “Ettore Majorana” 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 at including time-resolved imaging.

Participation in the workshop by students, postdocs, technical staff and engineers is strongly encouraged. More details on the program will be given in the second circular and on the conference website: <https://agenda.infn.it/e/FATA2023>

Workshop Venue

The meeting will be held at the historical and picturesque location of *Monastero dei Benedettini* and *Dipartimento di Fisica e Astronomia - Università di Catania (Italy)*. Details about venue transportation and accommodation will be provided in the second circular and on the conference website.

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Social Events

Excursions to Noto and/or Militello and a social dinner will be organized. More details will appear in the second circular and on the conference web site.

Registration and Abstract Submission

Participants wishing to present a contribution will have to submit an abstract directly on the website. Abstracts will be selected for oral/poster presentation by the International Advisory Committee.

The deadline for submission is June 20th, 2023. In order to attend the workshop is necessary to fill in the form on the conference website. The registration fee will be 250 €, covering coffee breaks, social events, proceedings and workshop material.

Limited financial support for undergraduate and PhD students will be available under request to be submitted to the official contacts of the meeting: FATA2023@ct.infn.it

Participants using INFN funds must pay the fee by using internal transfer. Other participants will pay on arrival in cash or by credit card.

Official Contacts

For any further information you can send an email to FATA2023@ct.infn.it.