DESYT-2025

2ND INTERNATIONAL WORKSHOP ON
DETECTION SYSTEMS AND TECHNIQUES
FOR FUNDAMENTAL AND APPLIED PHYSICS

Catania (Italy), February 24 -26, 2025

Organized by:

University of Messina & INFN

Scientific Program

The workshop will focus on the most innovative aspects of detection systems and techniques developed for fundamental physics studies. Many recent activities investigate the correlated production of photons or charged and neutral particles in a wide dynamic range, as well as the identification of particles at extreme energies or in environments characterized by very high radiation density. The common requirement of such studies is an appropriate detection system.

Simulation tools and related applications will be discussed during dedicated sessions given their recognized value in planning and executing experiments in the fields of applied and fundamental physics. The workshop will also deal with applications of detection techniques in medicine, industrial processes and every other field of social interest, such as container scanning or radioactive waste monitoring.

General Information

The Workshop will be held at *Laboratori Nazionali del Sud* - INFN, in the "Emilio Migneco" Congress Hall, and it will consist of invited talks and selected oral presentations. Contributions will be arranged in two plenary sessions, namely

Detection systems and techniques regarding:

1 Fundamental Physics;

2 Applied Physics (Health, Energy, Environment, industrial, and so on).

The Workshop Proceedings will be published in an ISSN-coded International Journal indicized by ISI-Web of Science and SCOPUS, having a good Impact factor.

Topics

- Detectors
- Photons and Particle Identification Techniques
- Tracking Systems
- Simulation Tools and Applications
- Radiation detection and Imaging in Health and Plasma Sciences, and other fields of social interest

Call for Papers

Participants are encouraged to present their recent works to the Workshop. For each contribution an abstract of one page has to be submitted before **January 20th, 2025**. Additional information can be found at the Workshop Web-site (https://agenda.infn.it/event/43919/).
Participants will receive information on the acceptance of their contribution for an oral presentation before **January 25th, 2025**.

Workshop Organization and Committees

Chairpersons: Antonio Trifirò (Messina - Italy), S. Tudisco (Catania - Italy)
Co-Chairperson: Gianluigi Cosentino (Catania - Italy)
Co-Chairperson: Giuseppe Mandaglio (Messina - Italy)

Scientific Secretariat: G. Agnello, C. Altana, C. Di Mauro, V. Potenza

International Advisory Committee:

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M. Trimarchi (Messina University & INFN-Catania, Italy)
S. Tudisco (INFN-LNS, Italy)
E. Voutier (IJCLab, Orsay, France)

Local Organizing Committee: G. Agnello, C. Altana, G. Cosentino, G. Mandaglio, V. Potenza, S. Privitera, A. Sturniolo, A. Trifirò, M. Trimarchi, S. Tudisco

Deadlines

Abstract submission: **January 20th, 2025.**
Registration with discounted fee: **January 31st, 2025.**

Contacts

All correspondence concerning the Workshop should be sent to: loc@unime.it
Workshop website: https://agenda.infn.it/event/43919