



Accademia Peloritana  
dei Pericolanti

# DESYT-2019



Sezione di Catania



## INTERNATIONAL WORKSHOP ON DETECTION SYSTEMS AND TECHNIQUES IN NUCLEAR AND PARTICLE PHYSICS Messina (Italy), September 11-13, 2019

### Organized by:

University of Messina  
Accademia Peloritana dei Pericolanti  
AIFM - Associazione Italiana di Fisica Medica  
INFN - Istituto Nazionale di Fisica Nucleare - Sezione di Catania

### Scientific Program

The workshop will focus on the most innovative aspects of detection systems and techniques developed in nuclear and particle fields. Many recent studies investigate the correlated production of 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 the University of Messina, in the “Accademia Peloritana dei Pericolanti” Library Room, and it will consist of invited talks and selected oral presentations. Contributions will be arranged in three plenary sessions:

#### Detection systems and techniques regarding:

**1 Nuclear Physics**

**2 Particle Physics**

**3 Applied Physics (Medical, 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.

Selected contributions of each session will be submitted for publication as an extended article in "Atti dell'Accademia Peloritana dei Pericolanti - Classe di Scienze Fisiche, Matematiche e Naturali" (<http://cab.unime.it/journals/index.php/AAPP/index>).

### Topics

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

### Registration Fee

The registration fee will be Euro 150 (including welcome reception, coffee breaks, social dinner and publication of proceedings). The registration fee for an accompanying person will be Euro 50. Please note that the fee has to be paid by bank transfer.

### Call for Papers

Participants are encouraged to present their recent works to the Workshop. For each contribution an abstract of one page (A4 format, as doc or latex file) has to be submitted before **June 30<sup>th</sup>, 2019**.

Additional information can be found at the Workshop Web-site

(<http://newcleo.unime.it/Events/DeSyT2019>).

Participants will receive information on the acceptance of their contribution for an oral presentation before **July 5<sup>th</sup>, 2019**.

### Workshop Organization and Committees

**Chairman:** Antonio Trifirò (Messina - Italy)

**Co-Chairman:** Giuseppe Mandaglio (Messina - Italy)

**Co-Chairman:** Marina Trimarchi (Messina - Italy)

**Scientific Secretariat:** Lucrezia Auditore, Lucia Quattrocchi

### International Advisory Committee:

M. Abbrescia (Bari University, Italy)

L. Acosta (Mexico City's UNAM University, Mexico)

O. Adriani (Firenze University, Italy)

A. Barnyakov (BINP, Novosibirsk State University, Novosibirsk, Russia)

M. Battaglieri (INFN-Genova, Italy)

E. De Lucia (INFN-LNF, Italy)

D. Hatzifotiadou (INFN-Bologna, Italy)

A. Ferrari (HZDR, Dresden, Germany)

N. Le Neindre (LPC, Caen, France)

A. Magiera (Krakow University, Poland)

G. Mandaglio (Messina University, Italy)

T. Minniti (UKAEA, Abingdon, United Kingdom)

T. Nelson (SLAC, USA)

A. Rucinski (Institute of Nuclear Physics, Poland)

L. Shekhtman (BINP, Novosibirsk, Russia)

D. Snowden-Ifft (Occidental College, LA, USA)  
S. Stepanyan (JLab, USA)  
W. Trautmann (GSI, Darmstadt, Germany)  
A. Trifirò (Messina University, Italy)  
M. Trimarchi (Messina University, Italy)  
S. Tudisco (INFN-LNS, Italy)  
E. Voutier (IPNO, Orsay, France)

**Local Organizing Committee:** E. Amato, A. Italiano, G. Mandaglio, D. Pistone,  
A. Trifiró, M. Trimarchi

### **Deadlines**

Abstract submission: **June 30<sup>th</sup>, 2019.**  
Registration: **July 15<sup>th</sup>, 2019.**

### **Contacts**

All correspondence concerning the Workshop should be sent to: [loc@unime.it](mailto:loc@unime.it)  
Workshop website: <http://newcleo.unime.it/Events/DeSyT2019>

