

DESYT-2019

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



Programme

Wednesday 11th September 2019

- 8:30-9:30 **Welcome & Registration** (University of Messina - Aula Cannizzaro main building, Piazza Pugliatti 1)
- 09:30-09:45 **Opening** (University of Messina - Aula dell'Accademia Peloritana dei Pericolanti main building, Piazza Pugliatti 1)
- 09:45-11:05** **Convener: Antonio Trifirò**
- 09:45-10:20 Aleksandra Wronska *Prompt gamma imaging in proton therapy - status, challenges and developments*
- 10:20-10:40 Lia Lavezzi *GRAAL (GEM Reconstruction And Alignment Library)*
- 10:40-11:05 Alexander Barnyakov *The project of Super Charm-Tau Factory in Novosibirsk*
- Coffee Break (11:05-11:30)**
- 11:30-12:45** **Convener: Aleksandra Wronska**
- 11:30-11:55 Mara Bruzzi *Novel dosimetric systems for advanced clinical Radiotherapy*
- 11:55-12:20 Ernesto Amato *Full Monte Carlo internal dosimetry in nuclear medicine by means of GAMOS*
- 12:20-12:45 Carlo Civinini *Recent developments on proton Computed Tomography*
- Lunch Break (12:45-15:00)**
- 15:00-16:40** **Convener: Marina Trimarchi**
- 15:00-15:25 Paola La Rocca *Scientific and educational aspects of the EEE Project*
- 15:25-15:50 Francesco Riggi *A reconfigurable scintillator-based small array facility for cosmic ray studies*
- 15:50-16:15 Giuseppe Mandaglio *MPRC telescope simulation for the Extreme Energy Events experiment*
- 16:15-16:40 Marcello Abbrescia *Results from the PolarquEEEst mission*
- Coffee Break (16:40-17:05)**

17:05-17:55

Convener: Francesco Riggi

- 17:05-17:30 Mauro Menichelli *3D detectors on a Hydrogenated Amorphous Silicon for particle tracking in High radiation environment*
- 17:30-17:55 Catalin Frosin *Energy response and efficiency of CsI(Tl) crystals irradiated with energetic protons*

Thursday 12th September 2019

09:15-10:55

Convener: Giuseppe Mandaglio

- 09:15-09:40 Ivan Ovtin *Investigation of Cherenkov radiation component in LYSO(Ce) crystals*
- 09:40-10:05 Federico Lasagni *ATLAS Luminosity Monitoring with a Quartz Cherenkov Detector*
- 10:05-10:30 Evgeniy Kravchenko *Cherenkov detectors based on aerogel*
- 10:30-10:55 Sebastiano Albergo *Applications of Cherenkov detection in dual-readout mode*

Coffee Break (10:55-11:20)

11:20-13:00

Convener: Marcello Abbrescia

- 11:20-11:45 Giovanni Calderini *Pixel detectors for Atlas*
- 11:45-12:10 Daniele Dell'aquila *Nuclear physics experiments with highly segmented silicon detectors*
- 12:10-12:35 Sandro Barlini *FAZIA: a new performing detector for charged particles*
- 12:35-13:00 Giuseppe Cardella *Gamma ray detection with CHIMERA at LNS: results and perspectives*

Lunch Break (13:00-15:00)

15:00-16:40

Convener: Giuseppe Cardella

- 15:00-15:25 Chiara Pinto *Monitoring the long term stability of civil buildings through the MRPC telescopes of the EEE Project*
- 15:25-15:50 Otari Javakhishvili *A storage ring EDM polarimeter*
- 15:50-16:15 Jonathan Bortfeldt *Ultra-Thin Gaseous Detectors for Small Animal Proton Transmission Imaging*
- 16:15-16:40 Evaristo Cisbani *Recombination effects in the ionization chambers dose delivery monitor of the TOP-IMPLART proton beam*

Coffee Break (16:40-17:05)

17:05-17:50

Convener: Marina Trimarchi

17:05-17:25 Lia Lavezzi *GTS (Garfield-based Triple-GEM Simulator)*

17:25-17:50 Dariusz Miskowiec *(W)hole new field - the GEM TPC of ALICE*

20:30 - 23:00

Social Dinner

Friday 13th September 2019

09:30-10:45

Convener: Giuseppe Mandaglio

09:30-09:55 Tommaso Marchi *Gas Detectors for Tracking Systems*

09:55-10:20 Fabio Anulli *The Micromegas chambers for the ATLAS
New Small Wheel upgrade*

10:20-10:45 Michele Caponero *Two years test of a temperature sensing system based on FBG
technology for the CMS GEM GE1/1 detectors*

Coffee Break (10:45-11:10)

11:10-12:35

Convener: Antonio Trifirò

11:10-11:35 Mario S. Musumeci *The LNS facility in the ASIF network for radiation
hardness tests*

11:35-12:00 Francesco La Via *Silicon Carbide detectors for high energy ions and neutrons*

12:00-12:35 Mariangela Bondi *Searching for light dark matter at fixed target experiments*

12:35-13:00 **Closing Remarks**