

International Workshop

***Nuclear Reactions
on Nucleons and Nuclei***

Tuesday 24 - Thursday 26 October 2017
Messina (Italy)

Programme

Tuesday 24th October 2017

- 18:00-19:30 **Registration** (University of Messina - Aula Cannizzaro main building, Piazza Pugliatti 1)
- 19:30-21:00 **Welcome Reception**

Wednesday 25th October 2017

- 09:00-09:10 **Opening** (University of Messina - Aula dell'Accademia Peloritana dei Pericolanti main building, Piazza Pugliatti 1)

09:10-11:10 Convener: Giuseppe Mandaglio

09:10-10:00 Adam Szczepaniak *Modern hadron spectroscopy: a bridge between nuclear and particle science*

10:00-10:30 Sophie Heinz *Observation of new transuranium isotopes in multinucleon transfer reactions*

10:30-11:00 Francesco Noferini *ALICE results at Run-1/Run-2 and perspectives*

Coffee Break (*Sala Commissioni*, 11:10-11:30)

12:00-13:30 Convener: Giorgio Giardina

12:00-12:30 Avazbek K. Nasirov *Mass and angular distributions of the reaction products in heavy ion collisions*

12:30-13:00 Fengshou Zhang *Production of heavy neutron-rich nuclei in multinucleon transfer reactions*

13:00-13:30 Brunilde Gnoffo *Isospin influence on the reaction mechanisms involved in the $^{78}\text{Kr}+^{40}\text{Ca}$ and $^{86}\text{Kr}+^{48}\text{Ca}$ collisions*

Lunch Break (*Sala Commissioni*, 13:30-14:40)

14:45-16:15 Convener: Marina Trimarchi

14:45-15:15 Fabio Crespi *Gamma decay of Pigmy states from inelastic scattering of Ions excited states of ^{23}Al and ^{22}Mg*

15:15-15:45 Deqing Fang *Studies on the two – proton emission from the excited states of ^{23}Al and ^{22}Mg*

15:45-16:15 Lucia Quattrocchi *Study of resonances produced in heavy ion collisions at intermediate energy*

Coffee Break (*Sala Commissioni*, 16:15-16:40)

- 16:40-17:30 Convener: Antonio Tifirò
- 16:40-17:10 Nunzia S. Martorana *Experimental study of the Pigmy Dipole resonance in the ^{68}Ni nucleus*
- 17:10-17:30 Antonio Cannuli *Portable Neutron generator for NAA Applications*

Social Dinner at "Royal Palace Hotel"
(21:00 - 23:00)

Thursday 26th October 2017

- 09:30-11:00 Convener: Avazbek K. Nasirov
- 09:30-10:00 Emanule Vardaci *Is nuclear viscosity dependent on temperature?*
- 10:00-10:30 Giorgio Giardina *Sensitivity of reaction dynamics by analysis of kinetic energy spectra of emitted light particles and formation of residue nuclei*
- 10:30-11:00 Vazgen Sargsyan *Role of neutron transfer and deformation effect in capture process at sub-barrier energies*
- 11:00-11:30 Concetta Parascandolo *The EXOTIC project at LNL and related experiments*

Coffee Break (*Aula Cannizzaro* - 11:30-11:50)

11:50-12:20 visit to clock tower of Duomo of Messina

- 12:30-13:20 Convener: Emanuele Vardaci
- 12:30-12:55 Enrico de Filippo *Integration of GET electronics for CHIMERA and FARCOS devices for the incoming experiments Gamma and ChiFar at LNS*
- 12:55-13:20 Paolo Russotto *Status and Perspectives of the INFN – LNS In-Flight fragment Separator*

Lunch Break (*Aula Cannizzaro* - 13:30-14:40)

- 14:50-15:50 Convener: Fengshou Zhang
- 14:50-15:20 Luigi Capponi *ELIADe detector and physics program at ELI-NP*
- 15:20-15:50 Gaetano Lanzalone *CNuclear reactions studies in Laser-Plasmas at the forthcoming ELI-NP facilities*
- 15:50-16:20 Deqing Fang *Exploring alpha – clustering of light nuclei in heavy ion and photonuclear reactions*

Coffee Break (*Aula Cannizzaro* - 16:20-16:40)

16:40-17: 40

Convener: Deqing Fang

16:40-17:10 Paolo Napolitani

Cluster formation in nuclear reaction from mean – field inhomogeneities

17:10-17:40 Emanuele Pagano

Distinction of statistical against dynamical PLF fission with the IMF-IMF correlation functions by comparisons with theoretical model

17:40-18:00 Closing remarks