Scientific Program
Tuesday – May 22nd

8:15 Bus from City centre (Piazza Stesicoro)

"Aula Magna" Seminar Room - Dipartimento di Fisica e Astronomia

9:00 Registration at workshop desk

9:45 Welcome of the Institutions
   G. Cuttone – INFN Laboratori Nazionali del Sud, Catania
   A. Insolia – INFN Sezione di Catania
   V. Pirronello – Dipartimento di Fisica e Astronomia, Catania

10:00 – 12:15 Chair: A. Pagano – INFN Sezione di Catania, Italy

Recent Results of CHIMERA and INDRA

10:00 E. De Filippo – INFN Sezione di Catania, Italy
   Results and recent advances with the CHIMERA and FARCOS detectors

10:45 O. Lopez – LPC, Caen, France
   Hot news from INDRA and the next scientific INDRA+FAZIA program at GANIL

New experimental tools and detection techniques (I)

11:30 T. Isobe – RIKEN Nishina Center, Wako, Japan
   The SnRIT and pion detectors in RIKEN for the experimental study of symmetry energy with heavy ion collisions

12:30 – 14:00 Lunch at Laboratori Nazionali del Sud Guest House

Main Conference Room Laboratori Nazionali del Sud

14:00 – 16:00 Chair: B. Borderie – IPN Orsay, France

New experimental tools and detection techniques (II)

14:00 D. Gruyer – ENSICAEN, UNICAEN, CNRS/IN2P3, LPC, Caen, France
   New trends in mass identification with telescope detectors

14:45 S. Valdrè – INFN Sezione di Firenze, Italy
   Time of flight identification with FAZIA

15:10 C. Guazzoni – Politecnico di Milano & INFN Sezione di Milano, Italy
   Versatile multichannel CMOS front-end with selectable full-scale dynamics from 90 MeV up to 2 GeV for the readout of detector’s signals in nuclear physics experiments

15:35 S. M. Valle – INFN Sezione di Bologna, Italy
   FOOT (Fragmentation Of Target) Experiment
16:00 – 16:30 Coffee break

16:30 – 18:05 Chair: A. McIntosh – Texas A&M University, USA

**Isospin effects in Nuclear Reactions (I)**

16:30 S. Yennello – Texas A&M University, USA
Isospin effects in nuclear reactions

17:15 S. Piantelli – INFN Sezione di Firenze, Italy
Recent results of the ISOFAZIA experiment

17:40 A. Camaiani – INFN Sezione di Firenze, Italy
Study of the $N=Z$ fragment production in the $^{40,48}$Ca+$^{40,48}$Ca at 35 MeV/u with FAZIA detector

18:30 Welcome Cocktail and Concert
in "Aula Magna" Seminar Room - Dipartimento di Fisica e Astronomia

21:00 Bus for City centre

**Wednesday – May 23rd**

8:15 Bus from City centre (Piazza Stesicoro)
Main Conference Room Laboratori Nazionali del Sud

9:00 – 11:00 Chair: F. Gramegna – INFN LNL, Legnaro, Italy

**Isospin effects in Nuclear Reactions (II)**

9:00 A. S. Umar – Physics and Astronomy Vanderbilt University, USA
Equilibration dynamics and isospin effects in nuclear reactions

9:25 A. Chhihi – GANIL, Caen, France
Influence of neutron enrichment on de-excitation properties of palladium isotopes

**Current trend for Fission**

9:50 M. Caamano – Universidade de Santiago de Compostela, Spain
Fission in Inverse kinematics: A new window to experimental observables

10:35 L. Audouin – IPN Orsay, France
Fission in inverse kinematics: recent results and perspectives

11:00 – 11:30 Coffee break
11:30 – 13:05 Chair: K. Mazurek – INP Krakow

11:30 D. Lacroix – IPN Orsay, France
Current trends in the microscopic description of fission

12:15 B. Gnoffo – DFA and INFN Sezione di Catania, Italy
Isospin influence on the Intermediate Mass Fragments
dynamical emission at Fermi energy and at low energy

12:40 M. Colonna – INFN Laboratori Nazionali del Sud, Catania, Italy
Competition between fusion and quasifission processes in
heavy ion collisions close to the Coulomb barrier

13:05 – 14:30 Lunch

14:30 – 16:05 Chair: F. Rizzo – INFN LNS, Catania, Italy

Exploring Nuclear Equation of State (I)

14:30 I. Vidana – INFN Sezione di Catania, Italy
The nuclear equation of state: from experiments to
astrophysical observations accompanied by the hand of theory

15:15 A. Le Fevre – GSI, Darmstadt, Germany
On the Origin of the Elliptic Flow and its Dependence on the
Equation of State in Heavy Ion Reactions at Intermediate
Energies

15:40 E.V. Pagano – INFN Sezione di Catania, Italy
The NArCos Project

Poster Session

16.15 – 16.45 Short Clips moderated by S. Yennello – TAMU, USA

F. Favela – INFN Sezione di Catania, Italy
A general ideal multifragmentation kinematics algorithm for
nuclear physics, a binary reaction approach

I. Lombardo – INFN Sezione di Catania, Italy
Cluster states in $^{13}$C investigated with nuclear reactions
induced by α particles on $^{9}$Be

N.S. Martorana – DFA and INFN LNS, Catania, Italy
On the nature of the low-energy E1 strength in the unstable
nucleus $^{68}$Ni

F. Torabi – University of Mazandaran, Babolsar, Iran
Study of nuclear matter property in heavy-ion fusion
reactions

M. Vigilante – Università and INFN Sezione di Napoli
Opportunities of studying clustering in nuclei with the TTT3
tandem accelerator in Napoli

16.45 – 18.00 Poster exhibition with coffee
Thursday – May 24th

8:15 Bus from City centre (Piazza Stesicoro)

Main Conference Room Laboratori Nazionali del Sud

9:00 – 11:00 Chair: M. Colonna – INFN LNS, Catania, Italy

Exploring Nuclear Equation of State (II)

9:00 J. Lukasik – IFJ PAN, Krakow, Poland
Constraints on the density dependence of the symmetry energy

9:45 E. Bonnet – Subatech, Nantes, France
Characterization of the nuclear gas phase produced in HI collisions

10:10 M. Henri – ENSICAEN, CNRS/IN2P3, LPC, Caen, Francia
Transport properties in the Fermi energy domain

10:35 H. Wolter – University of Munich, Germany
Comparison of transport codes in box calculations

11:00 – 11:30 Coffee break

11:30 – 13:30 Chair: S. Typel – Technical Uni Darmstadt, Germany

Correlations and clustering phenomena (I)

11:30 S. Szilner – Ruder Boskovic Institute, Zagreb, Croatia
Probing nucleon-nucleon correlations in heavy ion transfer reactions

12:15 A. Di Pietro – INFN Laboratori Nazionali Sud, Catania, Italy
Exotic Clustering Investigation in 13B and 14C Nuclei

12:40 M. Cicerchia – INFN LNL and University of Padova, Italy
A study on four reactions forming the $^{46}$Ti*

13:05 L. Quattrocchi – DFA and INFN Sezione di Catania, Italy
Decay of $^{12}$C excited states produced in Heavy Ion Collisions at intermediate energies

13.30 – 15:00 Lunch

15:00 – 17:05 Chair: R. Bougault – LPC, Caen, France

Dynamics and structure in heavy-ion collisions

15:00 A. Rodriguez – Texas A&M University, USA
Equilibration Chronometry and Reaction Dynamics
15:25 P. Napolitani - IPN Orsay, France
  How nuclear jets form and disintegrate into clusters in heavy-ion collisions

15:50 V. De la Mota - Subatech, Nantes, France
  Extensions of mean-field descriptions in dynamical processes of nucleonic degrees of freedom

16:15 W. Trautmann - GSI Darmstadt, Germany
  Dynamical properties and secondary decay effects of projectile fragmentation in $^{124}$Sn, $^{107}$Sn+$^{120}$Sn collisions at 600 MeV/nucleon

17:00 Bus to city centre

19:30 Visit to Terme Achilleane - meeting at Museo Diocesiano
  20:30 Social dinner at Museo Diocesiano

---

**Friday - May 25th**

8:15 Bus from City centre (Piazza Stesicoro)

"Aula Magna" Dipartimento di Fisica e Astronomia

9:00 - 10:35 Chair: H. Wolter - University of Munich, Germany

**Correlations and clustering phenomena (II)**

9:00 S. Typel - Technical University Darmstadt, Germany
  Clustering in dilute matter with medium effects

9:45 W. Roepke - University of Rostock, Germany
  Few-nucleon correlations in nuclei and nuclear matter

10:10 K. Schmidt - University of Silesia, Chorzow, Poland
  Temperature and density of hot decaying $^{40}$Ca and $^{28}$Si

**10:40 Award of Best Poster Prizes**

11:00 - 11:30 Coffee break

11:30 - 13:05 Chair: G. Cardella - INFN Sezione di Catania

**New experimental tools and detection techniques (III)**

11:30 T. Marchi - INFN Laboratori Nazionali di Legnaro, Italy
  Active Targets and Time Projection chambers as new tools for probing EoS and clustering
12:15 F. Gramegna - INFN Laboratori Nazionali di Legnaro, Italy

*Status of the SPES project @ LNL and its scientific and technological challenges.*

12:40 D. Santonocito - INFN Laboratori Nazionali Sud, Catania, Italy

*Upgrade of experimental facilities @ LNS*

**Closing of the workshop**

13:05 Lunch at Aula Magna Dipartimento Fisica

14:00 Visit of Laboratori Nazionali del Sud

14:30 Bus to city centre and airport