

INTERNATIONAL SYMPOSIUM
Entrance Channel Effect
on the Reaction Mechanism in Heavy Ion Collisions

Messina (Italy)

November 6-8, 2013

Hotel “Capo Peloro Resort”

Program

November 6th

17:30 – 21:30 Registration (Hotel Hall)

20:00 -22:00 Welcome Reception (“Cariddi” - Restaurant)

November 7th (“Colapesce” - Hall)

9:00– 9:15 Opening Session

Chairman: **S. Pirrone**

9:15 – 9:45 **N.V. Antonenko** (BLTP, Dubna, Russia) (25' + 5' for discussion)

Impact of nuclear structure on production of superheavy nuclei

9:45 – 10:15 **E.M. Kozulin** (Dubna, Russia) (25' + 5' for discussion)

Shell effects in fission, quasi-fission and in multi-nucleon transfer reactions

10:15 – 10:45 **A.K. Nasirov** (Dubna, Russia) (25' + 5' for discussion)

Difference in Evaporation Residue Yields in the Cold and Hot Fusion Reactions

10:50 – 11:10 **Coffee Break**

Chairman: **A. K. Nasirov**

11:10 – 11:40 **S. Pirrone** (INFN-Catania, Italy) (25' + 5' for discussion)
[Decay competition in IMF production in the collisions \$^{78}\text{Kr}+^{40}\text{Ca}\$ and \$^{86}\text{Kr}+^{48}\text{Ca}\$ at 10 A.MeV](#)

11:40 – 12:10 **P. Figuera** (Catania, Italy) (25' + 5' for discussion)
[Collisions induced by halo and/or weakly bound nuclei around the Coulomb barrier: experimental results at INFN-LNS](#)

12:10 – 12:40 **S. Heinz** (Darmstadt, Germany) (25' + 5' for discussion)
[Multinucleon transfer reactions - A new way to exotic nuclei?](#)

13:00 -15:00 lunch break

Chairman: **L. Calabretta**

15:00 – 15:30 **G. Adamian** (BLTP, Dubna, Russia) (25' + 5' for discussion)
[Nuclear reactions at near-barrier energies with quantum diffusion approach](#)

15:30 – 15:55 **M. Cavallaro** (LNS-CT, Italy) (20' + 5' for discussion)
[The \(\$^{18}\text{O},^{16}\text{O}\$ \) reaction: a bridge from direct to dissipative dynamics](#)

15:55 – 16:20 **M. Fisichella** (Catania, Italy) (20' + 5' for discussion)
[Neutron transfer and breakup entrance channel effects on the \$\text{Li}+\text{Sn}\$ fusion reactions](#)

16:20 – 16:40 Coffee break

Chairman: **N.V. Antonenko**

16:40 – 17:15 **C. Rizzo** (LNS, Catania, Italy) (20' + 5' for discussion)
[Entrance Channel Effects on the Fusion Dynamics with Exotic Beams](#)

17:15 – 17:45 **P. La Rocca** (INFN-Catania, Italy) (20' + 5' for discussion)
[The update program of the major experiments at LHC](#)

17:45 – 18:10 **J.P. Fernandez-Garcia** (Seville, Spain) (20' + 5' for discussion)
[Study of the breakup channel in \$^{11}\text{Li}+^{208}\text{Pb}\$ collisions at energies around the Coulomb barrier](#)

20:00 **Social Dinner (“Cariddi” - Restaurant)**

November 8th (“Colapesce” - Hall)

Chairman: **E. Kozulin**

09:00 – 09:25 **Yulia M. Itkis** (Dubna, Russia) (20' + 5' for discussion)
Bimodal fission of Hs(Z=108) formed in the reaction $26\text{Mg}+248\text{Cm}$*

09:25 – 09:50 **K.V. Novikov** (Dubna, Russia) (20' + 5' for discussion)
Investigation of osmium neutron-rich isotopes in the reaction $^{136}\text{Xe}+^{208}\text{Pb}$

09:50 – 10:20 **Nan Wang** (Shenzhen, China) (25' + 5' for discussion)
Study of the synthesis of superheavy nuclei in hot fusion reactions

10:20 – 10:45 **G.N. Knyazheva** (Dubna, Russia) (20' + 5' for discussion)
The time scale of quasifission process in the reactions with heavy ions

10:45 – 11:10 Coffee break

Chairman: **Nan Wang**

11:10 – 11:35 **Ajay Kumar** (Varanasi, India) (20' + 5' for discussion)
Study of angular momentum variation due to entrance channel effect in heavy ion fusion reactions

11:35 – 12:00 **P. Russotto** (Catania, Italy) (20' + 5' for discussion)
Isospin Effects In Projectile Dynamical Fission For $^{112,124}\text{Sn}+^{58,64}\text{Ni}$ Reactions At 35 A MeV

12:00 – 12:25 **P. Napolitani** (LNS, Catania, Italy) (20' + 5' for discussion)
Bifurcations in dissipative fermionic dynamics

12:25 – 12:50 **M. Papa** (INFN, Catania, Italy) (20' + 5' for discussion)
Entrance channel effects and many-body correlations in nuclear dynamics

13:00 – 15:00 **Lunch break**

Chairman: **S. Heinz**

15:00 – 15:25 **C. Rodriguez-Tajes** (Caen, France) (20' + 5' for discussion)
 $^{238}\text{U}+^{12}\text{C}$ transfer reactions in inverse kinematics: An experimental approach for fission studies

15:25 – 15:50 **I. Lombardo** (Napoli, Italy) (20' + 5' for discussion)
Entrance channel effects in medium mass nuclear systems at 25 MeV/nucleon

15:50 -16:15 **Coffee break**

Chairman: **G. Adamian**

16:15 – 16:40 **Xi-Guang Cao** (Shanghai, China) (20' + 5' for discussion)
[The dynamics of massive fusion near barrier by a microscopic dynamical model](#)

16:40 – 17:10 **G. Giardina** (Messina, Italy)
[Closing](#)