

## International Symposium



## Quasifission Process in Heavy Ion Reactions

Messina (Italy)

8-9 November 2010

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**Aula Magna – University of Messina, Piazza Pugliatti, 1**

## PROGRAM OF THE SYMPOSIUM

### 8 November

#### 9:30 – Opening addresses

Chairman: G. Giardina

**10:00 -10:45 B.B. Back** (Argonne National Laboratory - USA)  
“Experimental signatures of quasifission” (40+5 min.)

#### 10:45 -11:00 Coffee Break

Chairman: B.B. Back

**11:00 -11:45 G. Giardina** (University of Messina - Italy)  
“Quasifission dynamics from the theoretical analysis of experimental data of fissionlike reaction products” (40+5 min.)

Chairman: A.K. Nasirov

**11:45 -12:30 H.Q. Zhang** (China Institute of Atomic Energy - China)  
“Competition between fusion-fission and quasifission processes in the  $^{32}\text{S}+^{184}\text{W}$ ” (40+5 min.)

Chairman: A. Pagano

**12:30 -13:00 S. Szilner** (University of Zagreb - Croatia)  
“Quasi-elastic reactions: an interplay of the reaction  
dynamics and the nuclear structure” (20+5 min.)

**13:00 -14:30 Lunch break (Buffet)**

Chairman: R.K. Choudhury

**14:30 -15:15 A.K. Nasirov** (JINR of Dubna - Russia)  
“Dynamics of dinuclear system formation and its decay in heavy ion  
collisions” (40+5 min.)

Chairman: H.Q. Zhang

**15:15 -16:00 R.K. Choudhury** (BARC - India)  
“Non-equilibrium processes in heavy ion induced fission reactions”  
(40+5 min.)

**16:45 -17:00 Coffee Break**

Chairman: E.M. Kozulin

**17:00 -17:45 N.V. Antonenko** (JINR - Russia)  
“Production of exotic nuclei in quasifission type reactions”  
(40+5 min.)

Chairman: A. Di Pietro

**17:45 -18:10 M. Fisichella** (INFN Laboratori Nazionali del Sud - Italy)  
“Fusion cross section in  $^4\text{He}+^{64}\text{Zn}$  collision  
around and below the Coulomb barrier” (20+5 min.)

Chairman: S. Kumar

**18:10 -18:35 P.P. Singh** (INFN - Laboratori Nazionali di Legnaro - Italy)  
“Incomplete vs complete fusion at 4-7 MeV/nucleon” (20+5 min.)

**20:45 Symposium Dinner** (at Royal Palace Hotel)

## 9 November

Chairman: N.V. Antonenko

**9:00 -9:45 E. M. Kozulin** (JINR of Dubna - Russia)  
“Investigation of heavy ion-induced reaction mechanism at energies near the coulomb barrier” (40+5 min.)

Chairman: G.G. Adamian

**9:45 -10:30 K. Nishio** (JAEA - Japan)  
“Study for fusion-fission and quasifission in reactions using  $^{238}\text{U}$  target nucleus” (40+5 min.)

### 10:30 – 10:45 Coffee Break

Chairman: K. Nishio

**10:45 -11:30 M. Morjean** (GANIL - France)  
“Discrimination between fission and quasi-fission from reaction time measurements” (40+5 min.)

Chairman: S. Heinz

**11:30 -12:15 L. Corradi** ( INFN – Laboratori Nazionali di Legnaro -Italy)  
“The evolution from quasi-elastic to deep inelastic processes and its connection to fusion” (40+5 min.)

Chairman: M. Morjean

**12:15 -13:00 G.G. Adamian** (JINR - Russia)  
“Peculiarities of sub-barrier reactions with heavy ions” (40+5 min.)

### 13:00 -14:30 Lunch break (Buffet)

Chairman: S. Szilner

**14:30 -15:15 S. Heinz** (Gesellschaft Schwerionenforschung mbH -Germany)  
“Multi-nucleon transfer in super-heavy systems at sub- and near barrier energies” (40+5 min.)

Chairman: L. Corradi

**15:15 -16:00 E. Vardaci** (University of Napoli - Italy)  
“Statistics vs. dynamics in fission: hints from systems of intermediate  
fissility” (40+5 min.)

**16:00 – 16:15 Coffee Break**

Chairman: V.S. Olkhovsky

**16:00 -16:25 S.P. Maydanyuk** (INR of NASU, Kiev - Ukraine)  
“Bremsstrahlung accompanying ternary fission of nuclei”  
(20+5 min.)

Chairman: S.P. Maydanyuk

**16:25 -16:50 S. Markochev** (Moscow Institute of Physics and Technology - Russia)  
“Investigation of the high energy  $\gamma$ -rays accompanying  
spontaneous fission of  $^{252}\text{Cf}$  in double and  
triple neutron- $\gamma$  coincidences” (20+5 min.)

Chairman: E. Strano

**16:50 -17:15 C. Rizzo** (University of Catania - Italy)  
“Symmetry energy effects on fusion cross sections” (20+5 min.)

Chairman: C. Rizzo

**17:15 -17:40 E. Strano** (INFN - Laboratori Nazionali del Sud - Italy)  
“Structure effects and dynamics in fusion reaction of light weakly  
bound nuclei” (20+5 min.)

Chairman: E. Vardaci

**17:40 -18:05 Sushil Kumar** (Chitkara University - India)  
“Decay studies of rare-earth nuclei to superheavy elements and the  
associated shell effects” (20+5 min.)

**18:05-18:15 Concluding remarks**