



Program of the Topical Meeting

«Dynamical cluster formation and correlations in heavy-ion collisions, within transport models and in experiments»

Tuesday, May 17, 2016

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| 9:15 | Registration |
| 9:30 | Welcome |
| | <i>Chairman: Abdelouahad Chbihi, GANIL</i> |
| 9:35 – 10:20 | Hermann Wolter (University of Munich)
Fragment and cluster formation in heavy ion collisions |
| 10:20 – 10:50 | Coffee break |
| 10:50 – 11:35 | Elias Khan (IPN Orsay)
Cluster structure in stable and unstable nuclei |
| 11:35 – 12:05 | Paola Marini (CENBG Bordeaux)
Searching for signals of Bose condensation in the decay of hot nuclear systems |
| 12:05 – 12:50 | Anthea Fantina (GANIL)
Composition and clusters in the neutron-star crust |
| 12:50 – 14:30 | Lunch |
| | <i>Chairman: Hermann Wolter, University of Munich</i> |
| 14:30 – 15:15 | Pawel Danielewicz (Michigan State University)
Cluster production in Boltzmann Equation Model - past and future |
| 15:15 – 16:00 | Eric Bonnet (GANIL)
Cluster production in vaporization events |
| 16:00 – 16:30 | Coffee break |

- 16:30 – 17:15 Luca Morelli (INFN Bologna)
Clustering effects in reactions with light even-even N=Z nuclei:
From the Hoyle state to cluster emission in ^{24}Mg
- 17:15 – 18:30 General discussion

Wednesday, May 18, 2016

- 9:30 – 10:15 *Chairman: Pawel Danielewicz, Michigan State University*
Joseph Natowitz (Texas A&M University)
Low density matter
- 10:15 – 11:00 Paolo Napolitani (IPN Orsay)
Mean-field instabilities and cluster formation in nuclear reactions
- 11:00 – 11:30 Coffee break
- 11:30– 12:00 Sandrine Courtin (IPHC Strasbourg)
Probing cluster resonances via heavy-ion fusion reactions at sub-barrier energies in the $^{12}\text{C}+^{12}\text{C}$ and $^{12}\text{C}+^{16}\text{O}$ systems
- 12:00 – 14:00 Lunch
- 14:00– 14:45 *Chairman : Giuseppe Verde, IPN Orsay & INFN Catania*
Sylvie Hudan (Indiana University)
Does the α cluster structure in light nuclei persist through the fusion process?
- 14:45 – 15:30 Dominique Durand (LPC Caen)
A study of central collisions at intermediate energies with the ELIE event generator
- 15:30– 16:00 Laura Francalanza (INFN – Sezione di Napoli)
In medium fragment breakup of projectile in $^{36}\text{Ar}+^{58}\text{Ni}$ central collisions
- 16:00 – 16:30 Coffee break
- 16:30– 17:00 Lucia Quattrochi (INFN & Università di Catania)
Study of two and multi particles correlations in $^{12}\text{C}+^{24}\text{Mg}$ collisions at 35 AMeV
- 17:00– 18:00 General discussion
- 20:00 Conference dinner

Thursday, May 19, 2016

- 9:00 – 9:45 *Chairwoman: Sylvie Hudan, Indiana University*
Giuseppe Verde (IPN Orsay & INFN Catania)
Correlation and clustering analyses in heavy-ion collision data
- 9:45 – 10:30 Rémi Bougault (LPC Caen)
Light cluster production in Xe+Sn 32 A.MeV
- 10:30 – 11:00 Coffee break
- 11:00 – 11:30 Daniela Fabris (INFN Sezione di Padova)
Pre-equilibrium particles emission to study clustering in nuclei
- 11:30– 12:15 General discussion
- 12:15 – 14:00 Lunch
- End of the Workshop