

Tuesday, November 23th (09:00-18:45)

09:00	Beginning of the workshop	
09:00 – 09:20	<i>Welcome Address</i> Navin Alahari, director of GANIL	20'
09:20 – 09:40	<i>Welcome Address</i> Rémi Bougault, deputy director of LPC Caen	20'
Session : general presentation (I), chair R. Bougault (LPC/ENSICAEN, France)		
09:40 – 10:25	<i>Recent Highlights from INDRA</i> J.D. Frankland (GANIL, France)	35'+10'
10:25 – 10:55	Coffee break	
Session : general presentation (II), chair R. Bougault (LPC/ENSICAEN, France)		
10:55 – 11:40	<i>Recent highlights from CHIMERA</i> E. Geraci (Univ. Catania & INFN Sez. Catania, Italy)	35'+10'
Session : Nuclear dynamics, from fission to multifragmentation (I), chair : S. Pirrone (INFN, Sez. Catania, Italy)		
11:40 – 12:05	<i>Comparison of heavy ion transport simulations for Mean-Field dynamics</i> M. Colonna (INFN-LNS Catania, Italy)	18'+7'
12:05 – 12:30	<i>AMD with Fermi motion, clustering and 3-body collisions</i> R. Wada (Texas A&M, USA)	18'+7'
12:30 – 12:55	<i>Probing the nucleon effective mass with n/p ratios using Bayesian analysis (♣) (R)</i> C.-E. Teh (NSCL Michigan State University, USA)	18'+7'
12:55 – 13:05	Buffer time	10'
13:05 – 14:15	Lunch	
Session : Nuclear dynamics, from fission to multifragmentation (II), chair : A. Chbihi (GANIL, France)		
14:15 – 15:00	<i>Progress in the characterization of the fission fragments in microscopic theory (♣)</i> G. Scamps (Bruxelles Univ., Belgium)	35'+10'
15:00 – 15:25	<i>Quenched production of neutron-rich nuclei in fragmentation reactions of medium-mass and heavy projectiles</i> J. Benlliure (Univ. Santiago de Compostella, Spain)	18'+7'
15:25 – 15:50	<i>Density evaluation in neck fragmentation at Fermi energies (R)</i> A. Pagano (INFN Sez. Catania, Italy)	18'+7'
15:50 – 16:00	Buffer time	10'
16:00 – 16:30	Coffee break	
Session : Nuclear dynamics, from fission to multifragmentation (III), chair : A. Chbihi (GANIL, France)		
16:30 – 17:15	<i>The asymmetry dependence of temperatures measured in fusion-evaporation reactions and in multi-fragmentation reactions</i> A. B. McIntosh (Texas A&M, USA)	35'+10'
17:15 – 17:40	<i>Negative heat capacity for hot nuclei : confirmation with formulation from the microcanonical ensemble</i> B. Borderie (IJCLab Orsay, France)	18'+7'
17:40 – 18:05	<i>Interplay between surface and volume instabilities in heavy-ion collisions examined within mean-field extensions</i> P. Napolitani (IJCLab Orsay, France)	18'+7'
18:05 – 18:30	<i>Collective and dissipative effects in a common dynamical description (♣)</i> H. Dinh Viet (IJCLab Orsay, France)	18'+7'
18:30 – 18:45	Buffer time	15'

Wednesday, November 24th (10:00 – 18:20)**Session : isospin effects and EOS in nuclear reactions (I), chair : A. B. McIntosh (Texas A&M, USA)**

10:00 – 10:25	<i>Understanding isospin transport ratio : influence of fast emissions and statistical de-excitation (♣)</i> A. Camaiani (IKS – KU Leuven, Belgium)	18'+7'
10:25 – 10:50	<i>Isospin influence on the thermal characteristics in the reactions $^{78,86}\text{Kr}+^{40,48}\text{Ca}$ at 10 A MeV (♣) (R)</i> B. Gnoffo (Univ. Catania & INFN Sez. Catania, Italy)	18'+7'
10:50 – 11:00	Buffer time	10'
11:00 – 11:30	Coffee break	

Session : isospin effects and EOS in nuclear reactions (II), chair : A. B. McIntosh (Texas A&M, USA)

11:30 – 11:55	<i>Experimental study of the symmetry energy from $^{40,48}\text{Ca}+^{40,48}\text{Ca}$ reactions at 35 A MeV (♣)</i> Q. Fable (LT2I, CNRS/IN2P3, France)	18'+7'
11:55 – 12:20	<i>Probing nuclear isospin equilibration : the INDRA-FAZIA experiment in GANIL (♣)</i> J. Quicray (Normandie Univ., ENSICAEN, UNICAEN, CNRS/IN2P3, LPC Caen, France)	18'+7'
12:20 – 12:45	<i>Isoscaling effect with Z=1 and 2 particles in Sn+Sn reactions at 270 A MeV (♣) (R)</i> J.W. Lee (Korea Univ., Seoul, South Korea)	18'+7'
12:45 – 12:55	Buffer time	10'

12:55 – 14:15	Lunch	
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Session : isospin effects and EOS in nuclear reactions (III), chair : J. D. Frankland (GANIL, France)

14:15 – 15:00	<i>Theoretical aspects : isospin effects and EOS in nuclear reactions (R)</i> B.A. Li (Texas A&M Commerce, USA)	35'+10'
15:00 – 15:25	<i>Status of data analysis and preliminary results of the CHIFAR experiment (R)</i> P. Russotto (INFN-LNS Catania, Italy)	18'+7'
15:25 – 15:50	<i>Constraints on the symmetry energy at supra-saturation density from Pion spectral functions (R)</i> W. Lynch (NSCL/FRIB Dept. of Phys. and Astronomy, MSU, USA)	18'+7'
15:50 – 16:00	Buffer time	10'

16:00 – 16:30	Coffee break	
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Session : clustering phenomena and multi-particle decay (I), chair : M. Camaano (Univ. Santiago de Comp., Spain)

16:30 – 17:15	<i>Clustering effects in nuclear reactions at low and medium energies (R)</i> I. Lombardo (INFN Sez. Catania, Italy)	35'+10'
17:15 – 17:40	<i>Population and decay of states of ^{12}C (R)</i> G. Cardella (INFN Sez. Catania, Italy)	18'+7'
17:40 – 18:05	<i>Study of the ^{12}C Hoyle state produced by fragmentation (♣)</i> A. Rebillard-Soulié (Normandie Univ., ENSICAEN, UNICAEN, CNRS/IN2P3, LPC Caen, France)	18'+7'
18:05 – 18:20	Buffer time	15'

Thursday, November 25th (09:15 – 17:55)**Session : isospin effects and EOS in nuclear reactions (II), chair : M. Colonna (INFN-LNS Catania, Italy)**

09:15 – 10:00	<i>Transport model approach for clusters in heavy-ion collision dynamics (R)</i> A. Ono (Tohoku Univ., Japan)	35'+10'
10:00 – 10:25	<i>Alpha, cluster and 2-alpha decays with energy-density functional method (♣)</i> F. Mercier (IJCLab, Orsay, France)	18'+7'
10:25 – 10:50	<i>Status of the CLIR experiment at LNS (♣)</i> F. Risitano (Univ. Messina & INFN Sez. Catania, Italy)	18'+7'
10:50 – 11:00	Buffer time	10'

11:00 – 11:30	Coffee break	
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Session : nuclear EOS and Astrophysics (I), chair : D. Durand (LPC/ENSICAEN, France)

11:30 – 11:55	<i>Towards a global and multi-purpose EOS : quasi-clusters for an explicit treatment of short-range correlations (♣)</i> S. Burrello (TU Darsmtadt, Germany)	18'+7'
11:55 - 12:20	<i>Constraining neutron-star matter with microscopic and macroscopic collisions</i> A. Le Fèvre (GSI Darmstadt, Germany)	18'+7'
12:20 – 12:45	<i>Machine learning at the nexus of EOS and Astrophysics (R) (♣)</i> T. Chen (Association for Computing Machinery)	18'+7'
12:45 – 12:55	Buffer time	10'

12:55 – 14:15	Lunch	
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Session : nuclear EOS and Astrophysics (II) , chair : A. Fantina (GANIL, France)

14:15 – 15:00	<i>Binary neutron stars: from gravitational to particle physics (R)</i> L. Rezzola (Frankfurt Univ., Germany)	35'+10'
15:00 – 15:45	<i>The equation of state of dense matter and nuclear physics constraints</i> F. Gulminelli (Normandie Univ., ENSICAEN, UNICAEN, CNRS/IN2P3, LPC Caen, France)	35'+10'
15:45 - 16:10	<i>The effect of the energy functional on the pasta-phase properties of catalysed neutron stars (♣)</i> H. Dinh Thi (GANIL Caen, France)	18'+7'
16:10 – 16:20	Buffer time	10'

16:20 – 16:50	Coffee break	
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Session : new experimental tools, detection techniques and facilities (I), chair : G. Politi (INFN, Univ. Catania, Italy)

16:50 – 17:15	<i>Impact parameter determination using machine learning algorithms (♣) (R)</i> C.Y. Tsang (NSCL Michigan State University, USA)	18'+7'
17:15 – 17:40	<i>The new fragment in-flight separator at INFN-LNS (R) (♣)</i> N.S. Martorana (Univ. Catania & INFN-LNS, Italy)	18'+7'
17:40 – 17:55	Buffer time	15'

20:00 – 23:00	Social dinner (Caen downtown)	
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Friday, November 26th (09:35 – 13:00)**Session : new experimental tools, detection techniques and facilities (II), chair : N. Le Neindre (LPC/ENSICAEN,France)**

09:35 – 10:00	Recent results on the construction of a new correlator for neutrons and charged particles (R) (♣) E.V. Pagano (INFN-LNS Catania, Italy)	18'+7'
10:00 – 10:45	Status of the RI accelerator facility in Korea and experimental preparations K.I. Hahn (Center for exotic nuclear studies, IBS, Daejeon, Korea)	35'+10'
10:45 – 11:00	Buffer time	10'

11:00 – 11:30	Coffee break	
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Session : new experimental tools, detection techniques and facilities (III), chair : N. Le Neindre (LPC/ENSICAEN,France)

11:30 – 12:15	Probing the structure of exotic nuclei with protons targets (R) A. Corsi (IRFU Saclay, France)	35'+10'
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Session : award, chair : O. Lopez (LPC/ENSICAEN)

12:15 – 12:30	Awards for the best talk by a young physicist NUPECC prizes given by M. Lewitowicz, Chair of NUPECC	15'
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12:30 – 13:00	Concluding remarks	30'
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13:00	End of the workshop	
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13:00 – 14:15	Lunch	
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14:30 – 16:00	Visit of GANIL-SPIRAL2 (optional, limited to 20 persons)	
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(♣) talk by a young people (PHD/Post-Doc) for NUPECC awards
(R) remote talk