

Final Circular



**11TH INTERNATIONAL CONFERENCE ON
NUCLEUS-NUCLEUS COLLISIONS**

**May 27 – June 1, 2012
San Antonio, Texas, USA**

Organized by

[Cyclotron Institute, Texas A&M University](#)



and

[Department of Physics and Astronomy, Texas A&M University-Commerce](#)



Dear Colleague,

As we are approaching the dates of the [The 11th International Conference on Nucleus-Nucleus Collisions \(NN2012\)](#), please find in the following more detailed information:

Hotel Reservation:

Please reserve your room as soon as possible, **BEFORE May 7**, if you have not already done it yet. The NN2012 block rate is \$129/night + taxes. **Internet access is included.** Afterwards, reservations will be based on availability at the Hotel's prevailing rate (which is currently \$209/night + taxes and \$9.95/day for internet). All hotels within walking distances in the downtown area are more expensive than the NN2012 block rate.

[Ground transportations from San Antonio Airport to the Hyatt Regency \(on the river walk at 123 Losoya Street\)](#)

You can take a taxi, rent a car or take the airport shuttle to the hotel. The most convenient and economical way is to use the Airport shuttle. GO Airport Shuttle is San Antonio International Airport's authorized and single shared-ride shuttle service. Shuttles depart from 7 a.m. to 1:30 a.m. daily to downtown hotels every 15 minutes. Passengers may purchase tickets at the airport's baggage claim area.

Book online and receive an additional discount. Online rates are \$17.00 to downtown hotels and \$32.00 for a roundtrip ticket. [Make a reservation.](#)

Major Credit cards are accepted.

For more information, visit goairportshuttle.com or call 210-281-9900.

[Weather in San Antonio area:](#)

[Based on the San Antonio Weather History](#), during the latter part of May San Antonio has an average low temperature of 65 (18 °C) and an average high temperature of 86 °F (30 °C). The average rainfall during the month of May is 4.7 in (120mm).

[Registration:](#)

The registration desk will be open in NN2012 Office on the 2nd floor from 2pm to 8pm on Sunday, May 27, and 8am-5pm on Monday-Wednesday.

Last minute announcements:

Please check the [NN2012 homepage](#) for latest announcement.

Sunday night reception:

A Welcome Reception will take place at 8:00-10:00pm in the Ballroom on the 2nd floor of Hyatt Regency.

Instructions for oral presenters:

Plenary speakers in the morning sessions are requested to upload their presentations to the conference computer (MS Windows only) at least 30 minutes before the session starts. Speakers in the afternoon sessions are requested to upload their presentations to

the conference computers at the latest on the day of the session during the morning coffee break or between 12:00noon and 12:30pm. Earlier submission, even the day before, is encouraged. There will be a number of computers available in the conference office for the earlier uploads. Session chairs and their assistants assigned by the NN2012 LOC will be available for assistance if you encounter any problem uploading your files. Personal laptops are not allowed. Speakers are encouraged to “test” the presentation by scrolling through the slides on the conference computer at the time of upload. We will assume your consent for us to post your talks on the NN2012 webpage unless you specifically notify the session chair not to do so. The length of talks should be 17 minutes plus 3 minutes for discussion for 20-minute talks and 25+5 for 30-minute talks.

Lunches:

Lunches will be provided from Monday to Friday (included in the registration) in the hotel. Accommodations can be made for those with special dietary needs (i.e. vegetarian, gluten free, vegan). However, we need to know in advance for how many to prepare.

Banquet entertained by [Mariachi Las Coronelas](#):

The banquet is on Thursday for a fee of \$60. The hotel requires advance notice for the number of participants for the banquet. For this reason, the latest time to buy a banquet ticket at the registration desk will be **5pm on Monday, May 28**.

For those who have special needs for lunches and/or the banquet, please email your needs to Ms. Cheri Davis at Cheri.Davis@tamuc.edu before 5 pm, May 25.

Conference Proceedings:

The proceedings of the 11th International Conference on Nucleus-Nucleus Collisions (NN2012) will be ePublished in the Open Access *Journal of Physics: Conference Series* (JPCS), which is part of the IOP Conference Series. Authors are requested to submit their papers prior to the deadline of Monday, September 3rd, 2012. All papers submitted to NN2012 will be submitted to a peer review process. There is a 15 page maximum for Plenary and Invited papers, and a 10 page maximum for Contributed Talks and Posters. Authors please note that although multiple abstracts may be submitted and selected for oral and/or poster presentations, authors should consider publishing only one paper in the conference proceedings.

Conference program:

The schedule of events and scientific program are **on the following pages**. Please check the [NN2012 homepage](#) for possible updates.

Conference correspondence:

[Dr. Bao-An Li, Co-Chair & Scientific Secretary, NN2012](#)

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Looking forward to seeing you soon at NN2012 in San Antonio.

[NN2012 Local Organizing Committee](#)

NN2012 Schedule of Events

Sunday, May 27, 2012

Registration opens at 2pm in the NN2012 office on the 2nd floor (Level-B)

8:00-10:00pm, Welcome Reception, Regency Ballroom on the 2nd floor (Level-B)

Monday, May 28, 2012

8:30-9:30am: Opening Session, Regency West ½

Session Chair: Joe Natowitz (Texas A&M University)

8:30-8:45am: Welcome

8:45-9:30am: Keynote Talk, Robert Tribble (Texas A&M University)

9:30-12:00noon: Plenary Session 1, Heavy and Superheavy Elements

Session Chair: Kosuke Morita (RIKEN)

9:30-10:00am: Valery Zagrebaev (FLNR Dubna)

Opportunities for synthesis of new isotopes of superheavy elements

10:00-10:30am: Koji Morimoto (RIKEN)

Decay properties of SHE

10:30-11:00am, Coffee Break

11:00-11:30am: Michael Bender (CENBG, Bordeaux)

Structure of superheavy nuclei

11:30-12noon: Robert Eichler (Paul Scherer Institute)

Chemistry at the shore of The Island of SHE

12:00-1:30pm, Lunch in Regency East ½ on the 2nd floor (Level-B)

1:30-3:30pm: Parallel Sessions 1-6

3:30-3:50pm, Coffee Break

3:50-5:40pm: Parallel Sessions 7-12

5:40-6:30pm, Coffee Break

6:30-7:45pm, Francis Halzen (University of Wisconsin-Madison)

Public Lecture on neutrino physics

Host: Livius Trache (Texas A&M University)

Tuesday, May 29, 2012

8:00-10:00am: Plenary Session 2, QCD and Hadron Physics

Session Chair: Nu Xu (Lawrence Berkeley National Laboratory)

8:00-8:30am: Zoltan Fodor (Wuppertal U. & Eotvos University)

QCD, hadrons & equation of state from the lattice

8:30-9:00am: Miklos Gyulassy (Columbia University)

Jet Tomography versus Jet Holography of the QGP produced at RHIC and LHC

9:00-9:30am: Pengfei Zhuang (Tsinghua University, Beijing)

Quarkonium Production in Hot Quark Matter

9:30-10:00am: Piotr Salabura (Jagiellonian University, Krakow)

HADES experiments investigating in-medium hadron properties

10:00-10:30am, Coffee Break

10:30am-12:30pm: Plenary Session 3, Relativistic Heavy-Ion Collisions

Session Chair: Gary Westfall (Michigan State University)

10:30-11:00am: Peter Braun-Munzinger (GSI)

Quarkonium production, statistical hadronization, and the QCD phase boundary

11:00-11:30am: George Stephans (MIT)

Heavy Ion Results from [CMS](#) & ATLAS at the LHC

11:30-12:00noon: Carl Gagliardi (Texas A&M University)

An overview of RHIC experiments

12:00-12:30pm: Ulrich Heinz (The Ohio State University)

How perfect is "perfect"? The Quark-Gluon Plasma at RHIC and LHC

12:30-2:00pm, Lunch in the hotel

2:00-4:00pm Parallel Sessions 13-18

4:00-5:30pm Poster Session (Beer, wine, cheese & snacks provided)

8:00-10:00pm, [Fiesta Noche del Rio performance \(tickets paid for all participants and companions\) at the River Walk Amphitheater](#)

Wednesday, May 30, 2012

8:00-10:00am: Plenary Session 4, Nuclear Structure

Session Chair: Ani Aprahamian (University of Notre Dame)

8:00-8:30am: Andres Gadea (University of Valencia)

First Results with the early implementation of AGATA

8:30-9:00am: Roderick M. Clark (Lawrence Berkeley National Laboratory)

The Structure of the Heaviest Elements

9:00-9:30am: Takaharu Otsuka (University of Tokyo)

Shell evolution with tensor and three-body forces

9:30-10:00am: Rafal Broda (Jagiellonian University, Krakow)

Nuclear structure south-east of ^{48}Ca and upwards in spin in the ^{208}Pb region

10:00-10:30am, Coffee Break

10:30am-12:30pm, Plenary Session 5, Nuclear Energy and Applications of Nuclear Science and Technologies

Session Chair: Wenqing Shen (National Natural Science Foundation of China and Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

10:30-11:00am: Jolie Cizewski (Rutgers)

Applications of Nuclear Science for Stewardship Science

11:00-11:30am: Alex C. Mueller (CNRS, France)

Prospects for Transmutation of Nuclear Waste and the MYRRHA-demonstrator

11:30-12:00noon: Johan A. Frenje (MIT)

Nuclear Science using High Energy Density Plasmas - A new field of research

12:00n-12:30pm: Maria Martisikova (German Cancer Research Center, Heidelberg)

New measurement techniques for ion beam therapy purposes

12:30-2:00pm, Lunch in the hotel,

Taking a conference picture, location: TBA

Free afternoon for the participants to explore San Antonio and the surrounding areas

7:00pm-9:00pm, IAC +LOC dinner and meeting in the hotel to select the host of NN 2015

Room: TBA

Thursday, May 31, 2012

8:00am-10:00am, Plenary Session 6, Nuclear Reactions and Structure of Unstable Nuclei

Session Chair: Alejandro Szanto de Toledo (Universidade de São Paulo, San Paolo, Brazil)

8:00-8:30am: Lee G. Sobotka (Washington University, St. Louis)

Continuum spectroscopy of light nuclei studied by high-order correlation experiments

8:30-9:00am: Alan Wuosmaa (Western Michigan U.)

Recent experimental results from HELIOS

9:00-9:30am: Tom Aumann (Technical University Darmstadt, Germany)

Quasi-free knockout reactions with high-energy radioactive beams

9:30-10:00am: Gaute Hagen (Oak Ridge National Laboratory),

Structure and reactions at the dripline with coupled-cluster theory

10:00-10:30am, Coffee Break

Plenary Session 7, EOS of Neutron-Rich Nuclear Matter, Clusters in Nuclei and Nuclear Reactions

Session Chair: Gerd Roepke (University of Rostock)

10:30-11:00am: Betty Tsang (Michigan State University)

Overview of the density dependence of the Nuclear Symmetry Energy

11:00-11:30am: Stefan Typel (GSI/TU-Munich)

Cluster in nuclear matter and the Equation of State

11:30-12noon: Francesca Gulminelli (LPC-Caen)

EOS of star matter and its impact on astrophysics

12:00-12:30pm: Naoyuki Itagaki (Kyoto University)

Exotic cluster structure in light nuclei

12:30-2:00pm, Lunch

2:00-4:00pm Parallel Sessions 19-24

4:00-4:20pm, Coffee Break

4:20-6:10pm Parallel Sessions 25-30

7:00pm-8:30pm, Banquet entertained by [Mariachi Las Coronelas](#), Regency East 1/2

Friday, June 1, 2012

8:00am-10:00am, Plenary Session 8, Fusion and Fission

Session Chair: David Hinde (Australian National University)

8:00-8:30am: Mahananda Dasgupta (Australian National University)

Dynamics and time-scales in breakup and fusion

8:30-9:00am: Alberto Stefanini (INFN-LNL, Italy)

Fusion of calcium isotopes and of other medium-mass systems

9:00-9:30am: Cedric Simenel (CEA Saclay)

Quantum microscopic calculations to heavy-ion fusion and quasi-fission

9:30-10:00am: Fanny Farget (Ganil)

Isotopic fission fragment distributions as a deep probe to fusion-fission dynamics

10:00-10:30am, Coffee Break

10:30am-12:30pm, Plenary Session 9, Nuclear Astrophysics

Session Chair: Silvio Cherubini (University of Catania and INFN-LNS)

10:30-11:00am: Michael Wiescher (Notre Dame)

Experimental overview

11:00-11:30am: Alain Coc (Orsay),

Big-Bang Nucleosynthesis

11:30-12noon: Claudio Spitaleri (U. of Catania)

Trojan horse technique to measure nuclear astrophysical rearrangement reactions

12:00n-12:30pm: Thomas Rauscher (U. of Basel),

*Explosive nucleosynthesis and its connection to astrophysical reaction rates
for unstable nuclei*

12:30pm-2:00pm, Lunch

2:00pm-3:30pm, Plenary Session 10, New Accelerate Facilities and Detectors-A

Session Chair: Jerry Nolen (Argonne National Laboratory)

2:00-2:30pm: Brad Sherrill (MSU),

Facility for Rare Isotope Beams Status and Capabilities

2:30-3:00pm: Marek Lewitowicz (Ganil),

Status of the GANIL/SPIRAL2 facility

3:00-3:30pm: Guenther Rosner (FAIR at Darmstadt and U. of Glasgow)

The Facility for Antiproton and Ion Research, FAIR, in Europe

3:30-4:00am, Coffee Break

4:00pm-5:10pm, Plenary Session 10, New Accelerate Facilities and Detectors-B

Session Chair: Guoqing Xiao (Institute of Modern Physics, Lanzhou, Chinese Academy of Sciences)

4:00-4:30pm: Tohru Motobayashi (RIKEN),

Present and future of RIKEN RI Beam Factory (RIBF)

4:30-5:00pm: Guy Savard (Argonne)

CARIBU: a new facility for the study of neutron-rich isotopes

5:00-5:10pm, closing

NN2012 Schedule of Parallel Talks

Monday, May 28, 1:30-3:30pm: Parallel Sessions 1-6

Session 1: Nuclear Structure-1, Room 1:

Chair: Joseph Hamilton, Vanderbilt University

1:30-2:00	Precision mass measurements of n-rich nuclei from N=50 to N=82. <i>Juha Äystö, University of Jyväskylä, Jyväskylä, Finland</i>
2:00 -2:30	Structure of neutron-rich A>60 nuclei: A theoretical perspective <i>Yang Sun, Shanghai Jiao Tong University, China</i>
2:30-2:50	Lifetime measurements probing triple shape coexistence in ^{175}Au <i>Tuomas Grahn, University of Jyväskylä, Finland</i>
2:50-3:10	Alpha Cluster Structure in ^{13}C and $^{16,17}\text{O}$ <i>Marcia Rodrigues, Instituto de Fisica - Universidade de Sao Paulo, Brazil</i>
3:10-3:30	An improved nuclear mass formula <i>Ning Wang, Department of Physics, Guangxi Normal University, China</i>

Session 2: Nuclear Reactions and Structure of Unstable Nuclei-1, Room 2:

Chair: Robert Charity, Washington University, St. Louis

1:30-2:00	Breakup/Transfer Channel Couplings in Sub-barrier Fusion Reactions <i>Christian BECK, Institut Pluridisciplinaire Hubert Curien IN2P3/CNRS and U. of Strasbourg, FRANCE</i>
2:00 -2:30	Reactions with Weakly Bound Cluster Nuclei <i>Yuri Penionzhkevich, Joint Institute for Nuclear Research, Dubna, Russia</i>
2:30-2:50	Near-Far Description of Elastic and Breakup Reactions of Halo Nuclei <i>Mahir S. HUSSEIN, University of Sao Paulo, Brazil</i>
2:50-3:10	Identification of a possible new island of inversion <i>Oleg Tarasov, Michigan State University, USA</i>
3:10-3:30	Elastic scattering measurement for $^{17}\text{O} + ^{58}\text{Ni}$ at Coulomb barrier with Silicon strip detectors exploiting ASIC electronics <i>Cosimo Signorini, University of Padova and INFN, Padova, Italy</i>

Session 3: Nuclear Astrophysics-1, Room 3:

Chair: Michael Wiescher, University of Notre Dame

1:30-2:00	The Fluorine Destruction in Stars: First Experimental Study of the $^{19}\text{F}(p,\alpha_0)^{16}\text{O}$ Reaction at Astrophysical Energies <i>M. La Cognata, INFN-Laboratori Nazionali del Sud, Catania, Italy</i>
2:00 -2:30	Global R-Matrix Analysis of the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Reaction <i>Carl R. Brune, Ohio University</i>
2:30-2:50	New Results with TECSA – the $d(^{26}\text{Al},p)^{27}\text{Al}$ experiment <i>Brian Roeder, Texas A&M University, USA</i>
2:50-3:10	Searching for the Low-Energy Resonances in the $^{12}\text{C}(^{12}\text{C},n)^{23}\text{Mg}$ Reaction Cross-Section Relevant for S-Process Nucleosynthesis <i>Brian Bucher, University of Notre Dame, USA</i>
3:10-3:30	Experimental study of the $^{18}\text{O}(d,p)^{19}\text{O}$ reaction and the ANC Method <i>Vaclav Burjan, Nuclear Physics Institute, Czech Academy of Sciences, Rez, Czech Republic</i>

Session 4: Relativistic Heavy-Ion Collisions-1: Heavy Flavor I, Room4:**Chair: Ralf Rapp, Texas A&M University**

1:30-2:00	Probing Properties of QCD Matter with Strange and Heavy Quarks at RHIC <i>Huan Huang, U. of California at Los Angeles, USA</i>
2:00 -2:30	Heavy flavor physics with PHENIX <i>Rachid Nouicer, Brookhaven National Laboratory, USA</i>
2:30-2:50	Thermalization of charm quarks in infinite and finite quark-gluon plasma matter <i>Shanshan Cao, Duke University, USA</i>
2:50-3:10	Medium effects on bottomonia suppression in relativistic heavy-ion collisions <i>Taesoo Song, Texas A&M University, USA</i>
3:10-3:30	Heavy Flavor Physics with STAR <i>Flemming Videbaek, Brookhaven National Laboratory, USA</i>

Session 5: EOS and Clusters-1, Room 5:**Chair: W. Udo Schroeder, University of Rochester**

1:30-2:00	The behavior of constrained caloric curves as ultimate signature of a phase transition for hot nuclei <i>Bernard Borderie, CNRS-IN2P3/Institut de Physique Nucléaire/Université Paris-Sud 11, France</i>
2:00 -2:30	Constraint Molecular Dynamics and zero temperature EOS for asymmetric nuclear matter <i>Massimo Papa, Institute on Nuclear Physics (INFN) - Catania, Italy</i>
2:30-2:50	Shear viscosity to entropy density ratio of nuclear matter by transport model, <i>Deqing Fang, Shanghai Institute of Applied Physics, China</i>
2:50-3:10	Competition between fusion-evaporation and multifragmentation in central collisions in $^{58}\text{Ni}+^{48}\text{Ca}$ reaction at 25 AMeV <i>Laura Francalanza, Dipartimento di Fisica - INFN Catania, Italia</i>
3:10-3:30	A model for projectile fragmentation <i>Gargi Chaudhuri, Variable Energy Cyclotron Centre, India</i>

Session 6: New Facilities and Detectors-1, Room 6:**Chair: Brad Sherrill, Michigan State University**

1:30-2:00	Gamma-Ray Energy Tracking Array GRETINA <i>I-Yang Lee, Lawrence Berkeley National Laboratory, USA</i>
2:00 -2:30	The Extreme Light Infrastructure - Nuclear Physics (ELI-NP) Project <i>Ovidiu Tesileanu, University of Bucharest, Romania</i>
2:30-2:50	The Farcos project: Femtoscope Array for Correlations and Spectroscopy <i>Giuseppe Verde, INFN, Sezione di Catania, Italy</i>
2:50-3:10	Performance of Indian National Gamma Detector Array (INGA) Coupled with a Fast Digital Data Acquisition System for Nuclear Structure Studies <i>Rudrajyoti Palit, Tata Institute of Fundamental Research, India</i>
3:10-3:30	Study of Spatial Resolution and Muon Tomographic Imaging Properties of Glass RPCs <i>Qite Li, Peking University, China</i>

3:30-3:50pm, Coffee Break

Monday, May 28, 3:50-5:40pm: Parallel Sessions 7-12

Session 7: New Facilities and Detectors-2, Nuclear Energy and Technologies-1, Room 1:

Chair: I-Yang Lee, Lawrence Berkeley National Laboratory, USA

3:50-4:20	The Advanced Gamma Ray Tracking Array AGATA <i>Dino Bazzacco, INFN Sezione di Padova, Italy</i>
4:20-4:40	Neutron transfer reactions at large internuclear distances studied with the PRISMA spectrometer and the AGATA demonstrator <i>Daniele Montanari, Università degli Studi di Padova - INFN Padova, Italy</i>
4:40-5:00	Measurement of neutron yield by 70 MeV proton beam on a thick Beryllium target <i>Mikhail Osipenko, INFN, Genova, Italy</i>
5:00-5:20	Comparisons of hadron therapy-relevant data to nuclear interaction codes in the Geant4 toolkit <i>Benjamin Braunn, CEA/DSM/IRFU/SPhN, France</i>
5:20-5:40	Study of the Production of Mo and Tc Medical Radioisotopes Via Proton Induced Nuclear Reaction on natMo <i>Abeer Alharbi, Princess Nora University, Saudi Arabia</i>

Session 8: Nuclear Reactions and Structure of Unstable Nuclei-2, Room 2:

Chair: Carlos Bertulani, Texas A&M University-Commerce

3:50-4:20	Physics with the MSU High Resolution Array <i>William G. Lynch, Michigan State University, USA</i>
4:20-4:40	Significance of nuclear structure effects in decay of stable and excited nuclei <i>Manie Bansal, Panjab University, CHANDIGARH- 160014, India</i>
4:40-5:00	Investigating the role of the tensor force in heavy-ion collisions using nucleus-nucleus potential description <i>Yoritaka Iwata, Extreme Matter Institute, GSI, Darmstadt, Germany</i>
5:00-5:20	$^7\text{Be}, ^8\text{B} + ^{208}\text{Pb}$ Elastic Scattering at Intermediate Energies <i>Jiansong Wang, Institute of Modern Physics, Lanzhou, China</i>
5:20-5:40	Determination of the astrophysical $^{14}\text{C}(n, g)^{15}\text{C}$ reaction rate by means of the ANC <i>Matthew McClesek, Texas A&M University</i>

Session 9: QCD-1: Hadrons and EOS, Room 3:

Chair: Che-Ming Ko, Texas A&M University

3:50-4:20	Hadrons in a Cold Nuclear Medium <i>Tulio Rodrigues, Physics Institute - USP, Brazil</i>
4:20-4:40	Dihadron Momentum Imbalance and Correlations in d+Au Collisions <i>Zhongbo Kang, Brookhaven National Laboratory, USA</i>
4:40-5:00	The Equation of State of Quasi-Particle Model at Finite Chemical Potential and Quark Star <i>Hong-Shi Zong, Nanjing University, China</i>
5:00-5:20	Signatures of the QCD Phase Transition at Finite Isospin <i>Rainer Stiele, Heidelberg University, Germany</i>
5:20-5:40	Dilepton Emission in Temperature Dependent Baryonic Quark-Gluon Plasma, <i>S. Somorendro Singh, University of Delhi, India</i>

Session 10: Relativistic Heavy-Ion Collisions-2: Jets, Room 4:**Chair: Miklos Gyulassy, Columbia University**

3:50-4:20	Jet Measurements in Heavy Ion Collisions with an Upgraded PHENIX Detector <i>Dave Morrison, Brookhaven National Laboratory, USA</i>
4:20-4:40	High-pt Hadrons and direct photons results at RHIC <i>Ahmed M. Hamed, Texas A&M University, USA</i>
4:40-5:00	The "soft ridge" -- is it initial-state geometry or modified jets? <i>Thomas Trainor, University of Washington, Seattle, USA</i>
5:00-5:20	Medium information from Harmonic Flow and Jet Quenching in Relativistic Heavy Ion Collisions <i>Subrata Pal, Tata Institute of Fundamental Research, Mumbai, India</i>
5:20-5:40	Novel Bose-Einstein Interference Effects in the Passage of a Jet in a Dense Medium <i>Cheuk-Yin Wong, Oak Ridge National Laboratory, USA</i>

Session 11: EOS and Clusters-2, Room 5:**Chair: Wolfgang Bauer, Michigan State University**

3:50-4:20	In-Medium Cluster Binding Energies and Mott Points in Low Density Nuclear Matter <i>Kris Hagel, Cyclotron Institute, Texas A & M University, USA</i>
4:20-4:40	Evidence for alpha-particle condensation in nuclei from the Hoyle state deexcitation <i>Adriana R. Raduta, NIPNE-Bucharest, Romania</i>
4:40-5:00	Bose-Einstein Condensate in Nuclei <i>Katarzyna Schmidt, Texas A&M University, USA</i>
5:00-5:20	Density and Temperature of Fermions from Quantum Fluctuations <i>Hua Zheng, Texas A&M University, USA</i>
5:20-5:40	Status and performances of the FAZIA project <i>Marie-France Rivet, Institut de Physique Nucleaire, Orsay, France</i>

Session 12: EOS and Clusters-3: Symmetry energy, Room 6:**Chair: Hermann Wolter, Ludwig-Maximilians-Universität München**

3:50-4:20	Three-body force effects on properties of neutron-rich nuclear matter <i>Wei Zuo, Institute of Modern Physics, Chinese Academy of Sciences, China</i>
4:20-4:40	Tensor force induced short-range nucleon-nucleon correlation and high-density behavior of nuclear symmetry energy <i>Chang Xu, Nanjing University, China</i>
4:40-5:00	Nuclear symmetry energy and the role of the tensor force <i>Isaac Vidana, University of Coimbra, Portugal</i>
5:00-5:20	The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities <i>Paolo Russotto, INFN-LNS & Università di Catania, Italy</i>
5:20-5:40	Isovector channel of quark-meson-coupling model and its effect on symmetry energy <i>Xiaobao Wang, Peking University, China</i>

Tuesday, May 29, 2:00-4:00pm Parallel Sessions 13-18

Session 13: Nuclear Structure-2, Room 1:

Chair: Naftali Auerbach, Tel Aviv University

2:00 -2:30	Nuclear collectivity and shape evolution in exotic nuclei <i>Wolfram KORTEN, CEA Saclay, France</i>
2:30 -3:00	Nuclear response to two-neutron transfer via the ($^{18}\text{O}, ^{16}\text{O}$) reaction <i>Manuela Cavallaro, INFN - LNS, Italy</i>
3:00-3:20	Shell-model calculations of sd-shell nuclei <i>Furong Xu, Peking University, China</i>
3:20-3:40	Search for ^{28}Si cluster states through the $^{12}\text{C}+^{16}\text{O}$ radiative capture <i>Sandrine Courtin, IPHC and University of Strasbourg, France</i>
3:40-4:00	Giant resonances in ^{40}Ca and ^{48}Ca <i>Mason Anders, Texas A&M University, USA</i>

Session 14: Fusion and Fission-1, Room 2:

Chair: Huanqiao Zhang, China Institute of Atomic Energy, China

2:00 -2:30	Measurement of fusion cross sections in $^{12}\text{C} + ^{12}\text{C}$ at Low beam energies using a particle-gamma coincidence technique <i>Cheng Lie Jiang, Argonne National Laboratory, USA</i>
2:30 -3:00	Why the complete fusion of weakly bound nuclei is enhanced at sub-barrier energies and suppressed above the barrier <i>Paulo Gomes, Universidade Federal Fluminense, Brazil</i>
3:00-3:20	Fusion excitation measurement for $^{20}\text{O} + ^{12}\text{C}$ for $E_{\text{lab}}/A=1-2$ MeV <i>ROMUALDO DESOUZA, Indiana University, USA</i>
3:20-3:40	Dynamical aspect of subbarrier fusion reaction in light heavy ion systems <i>Meirong Huang, Institute of Modern Physics, Chinese Academy of Sciences, China</i>
3:40-4:00	The effect of positive Qxn-value neutron transfer on sub-barrier fusion reaction <i>Huiming Jia, China Institute of Atomic Energy, China</i>

Session 15: Nuclear EOS and Astrophysics-2, Room 3:

Chair: Xiaodong Tang, University of Notre Dame

2:00 -2:30	Pygmies, Giants, and Skins <i>Jorge Piekarewicz, Florida State University, USA</i>
2:30 -3:00	Magnetised neutron star crusts and shear mode oscillations <i>Debades Bandyopadhyay, Saha Institute of Nuclear Physics, India</i>
3:00-3:20	Combining terrestrial experiments and neutron star observations to constrain the equation of state of asymmetric nuclear matter <i>William G. Newton, Texas A&M University-Commerce, USA</i>
3:20-3:40	A dynamical description of neutron star crusts <i>Virginia de la Mota, SUBATECH/in2p3(cnrs)/University of Nantes, France</i>
3:40-4:00	Nuclear and Coulomb excitations of low-lying dipole states in exotic and stable nuclei <i>Edoardo G. Lanza, INFN - Sezione di Catania, Italy</i>

Session 16: Relativistic Heavy-Ion Collisions-3: Hadrons, Room 1:**Chair: Flemming Videbaek, Brookhaven National Laboratory****2:00 -2:30** Physics of compressed baryonic matter*Claudia Höhne, Giessen University, Germany***2:30 -3:00** Rho meson width at finite temperature from finite energy QCD sum rules*Alejandro Ayala, Universidad Nacional Autónoma de México, Mexico***3:00-3:20** Hadronic resonance production in Pb+Pb collisions from the ALICE experiment,*Anders Knospe, The University of Texas at Austin, USA***3:20-3:40** Strangeness production and propagation at sub-threshold energies*Yvonne Leifels, GSI, Germany***3:40-4:00** Derivation of Correction Terms to the Eikonal Expansions in the

Abrasion-Ablation Model for High Energy Heavy Ion Collisions

*Santosh Bhatt, University of Tennessee, USA***Session 17: EOS and Clusters-4: role of the isospin degree of freedom, Room 2:****Chair: Sherry Yennello, Texas A&M University****2:00 -2:30** Fragment emission in Ca+Ca reactions at 25 MeV/nucleon*Ivano Lombardo, Univ. Federico II, Napoli and INFN-Sez. Napoli, Italy***2:30 -3:00** Isotopic Trends in Dynamical Breakup*Sylvie Hudan, Indiana University, USA***3:00-3:20** Exploring the density dependence of the symmetry energy with isotopic distributions*Paola Marini, GANIL, France***3:20-3:40** On the isospin effects in flow and its disappearance and other related phenomena*Sakshi Gautam, Panjab University, Chandigarh, India***3:40-4:00** Isospin Dependence of Nuclear Caloric Curves*Alan McIntosh, Texas A&M University, USA***Session 18: Heavy and Superheavy Elements, Room 3:****Chair: Juha Äystö, University of Jyväskylä, Jyväskylä, Finland****2:00 -2:30** Synthetic Paths to the Heaviest Elements*Walt Loveland, Oregon State University, USA***2:30 -3:00** Study of super-heavy nuclei at IMP/Lanzhou*Xiaohong Zhou, Institute of Modern Physics, Chinese Academy of Sciences, China***3:00-3:20** Design and Development of a Trochoidal Mass Analyzer for the Berkeley Gas-filled Separator*Jacklyn Gates, Lawrence Berkeley National Laboratory, USA***3:20-3:40** Systematic calculations of alpha-decay half-lives of heavy and superheavy nuclei*Zhongzhou Ren, Nanjing University, China***3:40-4:00** Production of radon and thorium isotopes near N = 126 shell in ^{48}Ca and ^{54}Cr induced fusion reactions on ^{162}Dy ,*Dmitriy Mayorov, Texas A&M University, USA*

Thursday, May 31, 2:00-4:00pm Parallel Sessions 19-24

Session 19: Nuclear Structure-3, Room 1:

Chair: Shalom Shlomo, Texas A&M University

2:00 -2:30	Exploring the neutron dripline two neutrons at a time: Observations of ^{26}O and ^{16}Be ground state resonances <i>Zachary Kohley, Michigan State University, USA</i>
2:30 -3:00	Recent RIBF experiments on nuclei in the "island of inversion" (tentative) <i>Nori Aoi, Research Center for Nuclear Physics, Osaka University, Japan</i>
3:00-3:20	High-seniority states in spherical nuclei: Triple pair breaking in tin isotopes <i>Alain Astier, CNRS/IN2P3 - CSNSM Orsay, France</i>
3:20-3:40	Theoretical studies of exotic drip-line nuclei <i>Lídia S. Ferreira, CFIF/ Instituto Superior Técnico, Lisboa, Portugal</i>
3:40-4:00	Test of IMME in fp shell via direct mass measurements of $T_z = -2/3$ nuclides <i>Yuhu Zhang, Institute of Modern Physics, Chinese Academy of Sciences, China</i>

Session 20: Nuclear Reactions and Structure of Unstable Nuclei, Room 2:

Chair: Tohru Motobayashi, RIKEN

2:00 -2:30	Experimental results on the Coulomb excitation of exotic nuclei at the R3B-LAND setup <i>Dominic Rossi, GSI Darmstadt, Germany</i>
2:30 -3:00	Knockout reaction for exotic nuclei with recoil proton tagging <i>Yanlin Ye, Peking University, China</i>
3:00-3:20	Inclusive Coulomb and nuclear breakup of neutron-rich Ne, Mg, and Si isotopes <i>Nobuyuki Kobayashi, Tokyo Institute of Technology, Japan</i>
3:20-3:40	Coulomb distortion and medium corrections in nucleon-removal reactions <i>Mesut Karakoc, Texas A&M University-Commerce, USA</i>
3:40-4:00	Cluster spectroscopic investigation of ^7Be and ^7Li by the $^3\text{He}(^7\text{Be}, ^3\text{He})^7\text{Be}$ and $^4\text{He}(^7\text{Li}, ^4\text{He})^7\text{Li}$ elastic-transfer reactions <i>Valdir Guimaraes, Universidade de Sao Paulo, Brazil</i>

Session 21: Fusion and Fission-2, Room 3:

Chair: Christian BECK, Institut Pluridisciplinaire Hubert Curien IN2P3/CNRS

2:00 -2:30	Unexpected results in neutron-rich radioactive beams induced fusion <i>Felix Liang, Oak Ridge National Laboratory, USA</i>
2:30 -3:00	Fusion-Fissions and Quasi-fissions of $^{32,34}\text{S}$ - and ^{48}Ti -induced Fissions at Near-barrier Energies <i>Huanqiao Zhang, China Institute of Atomic Energy, China</i>
3:00-3:20	Fusion of $^{32}\text{S}+^{48}\text{Ca}$ at deep sub-barrier energies <i>Giovanna Montagnoli, University of Padova and INFN, Italy</i>
3:20-3:40	Effect of the shell closure on nuclear dissipation using neutron multiplicity as a probe <i>Bivash Behera, Panjab University, Chandigarh, India</i>
3:40-4:00	Cluster transfer in the reaction $^{16}\text{O}+^{208}\text{Pb}$ and its role in understanding the suppression of fusion <i>Maurits Evers, The Australian National University, Australia</i>

Session 22: Relativistic Heavy-Ion Collisions-4: QGP, Room 4:**Chair: George Stephans, Massachusetts Institute of Technology**

2:00 -2:30	Viewing the Chemical Evolution of the QGP <i>Scott Pratt, Michigan State University, USA</i>
2:30 -3:00	Shear viscosity and chemical equilibration of the QGP. <i>Salvatore Plumari, University of Catania, Italy</i>
3:00-3:20	The elliptic flow of di-electron in 200 GeV Au+Au collisions at STAR <i>Xiangli Cui, U. of Science and Technology, China</i> <i>and Brookhaven National Laboratory, USA</i>
3:20-3:40	Thermalization of the quark-gluon plasma and dynamical formation of Bose condensation <i>Jinfeng Liao, Indiana University & RBRC, USA</i>
3:40-4:00	Derivation of fluid dynamics from the Boltzmann equation <i>Gabriel Denicol, Frankfurt University, Germany</i>

Session 23: EOS and Clusters -5, Room 5:**Chair: Giuseppe Verde, INFN, Sezione di Catania, Italy**

2:00 -2:30	Experimental evidence of primary emission of light particles from compound nuclei prior to fission, 3-body or many-body breakup <i>Abdou Chbihi, GANIL, France</i>
2:30 -3:00	Boiling patterns of neutron-rich nuclear matter <i>Jan Toke, University of Rochester, USA</i>
3:00-3:20	Probing properties of nuclear interaction at intermediate energies via stopping <i>Zoran BASRAK, Ruder Boskovic Institute, HR-10002 Zagreb, Croatia</i>
3:20-3:40	Measurement of excitation energy of neutron-rich precursor fragments <i>David J. Morrissey, Michigan State University, USA</i>
3:40-4:00	Constrained Molecular Dynamics Approach to Alpha-Clustered Nuclear Systems: Study of the reaction $^{28}\text{Si}+^{12}\text{C}$ at 7.5 MeV/nucleon <i>Gianluca Giuliani, Texas A&M University, USA</i>

Session 24: EOS and Clusters -5: probing the symmetry energy, Room 6:**Chair: Fengshou Zhang, Beijing Normal University**

2:00 -2:30	Cluster correlations in multifragmentation <i>Akira Ono, Tohoku University, Japan</i>
2:30 -3:00	Reaction mechanisms in semi-classical transport theories: a test of the nuclear effective interaction <i>Maria Colonna, INFN - LNS, Catania, Italy</i>
3:00-3:20	Constraining the density dependence of the symmetry energy at low density using new observables from neck fragmentation mechanism <i>Enrico De Filippo, INFN Catania, Italy</i>
3:20-3:40	Probing the symmetry energy with isospin ratio and flow from nucleons to fragments <i>Yingxun Zhang, China Institute of Atomic Energy, China</i>
3:40-4:00	Role of neutrons to protons ratio in determining the symmetry energy at sub and supra-saturation densities <i>Sanjeev Kumar, Shanghai Institute of Applied Physics, China</i>

4:00-4:20pm, Coffee Break

Thursday, May 31, 4:20-6:10pm Parallel Sessions 25-30

Session 25: Fusion and Fission: theoretical aspects and applications, Room 1:

Chair: Mahir S. Hussein, University of Sao Paulo, Brazil

4:20 -4:50	Extension of the Liège Intra-Nuclear Cascade model to light ion-induced collisions for medical and space applications <i>Sylvie Leray, CEA/Saclay, IRFU/SPhN, France</i>
4:50-5:10	Constraining statistical-model parameters for symmetric and asymmetric fission <i>Davide Mancusi, CEA, Centre de Saclay, France</i>
5:10-5:30	Spatial barrier distributions for 8B+58Ni from a simultaneous optical model analysis of elastic scattering and fusion data <i>Arturo Gomez Camacho, Instituto Nacional de Investigaciones Nucleares, Mexico</i>
5:30-5:50	Microscopic DC-TDHF study of heavy-ion potentials and fusion cross sections <i>V. E. Oberacker, Vanderbilt University, USA</i>
5:50-6:10	Fusion excitation function revisited <i>Philippe Eudes, SUBATECH, FRANCE</i>

Session 26: Heavy and Superheavy Elements, Room 2:

Chair: Paulo Gomes, Universidade Federal Fluminense, Brazil

4:20 -4:50	Prospects for the Discovery of the Next New Element <i>Charles M. Folden III, Texas A&M University, USA</i>
4:50-5:10	What perspectives for the synthesis of heavier superheavy nuclei? <i>Giorgio Giardina, University of Messina, Italy</i>
5:10-5:30	Effect of Tensor Interaction on Heavy and Superheavy Nuclei <i>Xin-Rong Zhou, Xiamen University, China</i>
5:30-5:50	First prompt in-beam gamma-ray spectroscopy of a superheavy element <i>Jérôme Rubert, IPHC, France</i>
5:50-6:10	Fusion near the coulomb barrier: A semiclassical view <i>Rajiv Gupta, Guru Nanak Dev University, India</i>

Session 27: Nuclear Astrophysics-3, Room 3:

Chair: William G. Lynch, Michigan State University

4:20 -4:50	From the Sun to supernovae: experimental determinations of stellar reaction rates at TRIUMF <i>Jennifer Fallis, TRIUMF, Canada</i>
4:50-5:10	Trojan Horse method and radioactive ion beams: study of $^{18}\text{F}(p,\alpha)^{15}\text{O}$ reaction at astrophysical energies <i>Marisa Gulino, INFN, LNS and Univesita' degli Studi di Enna Kore, Italy</i>
5:10-5:30	Quantum Monte Carlo study of inhomogeneous neutron matter and neutron stars <i>Stefano Gandolfi, Los Alamos National Laboratory, USA</i>
5:30-5:50	Pure Neutron Matter Constraints on the Skyrme and Relativistic Mean Field Classes of Nuclear Energy Density Functionals <i>Farrooh Fattoyev, Texas A&M University-Commerce, USA</i>
5:50-6:10	Antikaons in neutron stars studied with extended relativistic mean-field models <i>Neha Gupta, Indian Institute of Technology Roorkee, India</i>

Session 28: Relativistic Heavy-Ion Collisions-5: Heavy Flavor II, Room 1:

Chair: Cheuk-Yin Wong, Oak Ridge National Laboratory

4:20 -4:50	Measurement of heavy flavour production in Pb-Pb collisions at the LHC with ALICE <i>Robert Grajacarek, University of Heidelberg, Germany</i>
4:50-5:10	Measurement of J/psi production in Pb-Pb and pp collisions at the LHC with the ALICE experiment <i>Martino Gagliardi, Università degli Studi and Sezione INFN Torino, Italy</i>
5:10-5:30	Heavy quark energy loss in high multiplicity proton-proton collisions at the LHC <i>Sascha Vogel, Frankfurt Institute for Advanced Studies, Germany</i>
5:30-5:50	Toward parton equilibration with improved parton interaction matrix elements <i>Bin Zhang, Arkansas State University, USA</i>
5:50-6:10	Twist-3 contributions to the azimuthal asymmetry at next-to-leading order SIDIS <i>Jia-jun Zhang, Lawrence Berkeley National Laboratory, USA</i>

Session 29: Relativistic Heavy-Ion Collisions-6: Flow and Anti-matter, Room 1:

Chair: Lanny Ray, University of Texas at Austin

4:20 -4:50	Observation of antimatter nuclei from the RHIC <i>Yu-Gang Ma, Shanghai Institute of Applied Physics, China</i>
4:50-5:10	Measurement of the higher order azimuthal anisotropy (v_n) for charged hadrons at RHIC-PHENIX <i>Maya Shimomura, Iowa State University, USA</i>
5:10-5:30	Triangular flow of charged particles in heavy ion collisions from the STAR experiment at RHIC <i>Yadav Pandit, Kent State University, USA</i>
5:30-5:50	Anisotropic flow in Pb-Pb collisions at $S^{1/2}=2.76$ TeV with the ALICE experiment <i>Alexandru Dobrin, Wayne State University, USA</i>
5:50-6:10	UrQMD calculations of two-pion HBT correlations in central Pb+Pb collisions at $S^{1/2}=2.76$ TeV <i>Qingfeng Li, Huzhou Teachers College, China</i>

Session 30: Nuclear Energy and Applications of Nuclear Sciences, Room 6:

Chair: Lawrence Townsend, University of Tennessee

4:20 -4:50	Yield of D-D and D-3He fusion reactions produced by the interaction of intense ultrafast laser pulses with molecular clusters <i>Marina Barbui, Cyclotron Institute, Texas A&M University, USA</i>
4:50-5:10	Abnormal screened potential of D-D fusion reaction in different host metals <i>Tieshan Wang, School of Nuclear Science, Lanzhou University, China</i>
5:10-5:30	Evaluation of tagging techniques of compound-nuclear gamma-decay probabilities for the indirect determination of neutron capture cross sections <i>Bethany Goldblum, University of California, Berkeley, USA</i>
5:30-5:50	FIRST experiment: Fragmentation of Ions Relevant for Space and Therapy <i>Clementina Agodi, LNS INFN, Italy</i>
5:50-6:10	Nuclear Constraints on non-Newtonian Gravity at Femtometer Scale <i>Jun Xu, Texas A&M University-Commerce, USA</i>