

NN2012 **Preliminary** List of Parallel Talks

Heavy and Superheavy Elements

Invited Talks:

Synthetic Paths to the Heaviest Elements

Walt Loveland, Oregon State University, USA

Prospects for the Discovery of the Next New Element

Charles M. Folden III, Texas A&M University, USA

Study of super-heavy nuclei at IMP/Lanzhou

Xiaohong Zhou, Institute of Modern Physics, Lanzhou, China

Contributed Talks:

Dynamical approach to heavy-ion fusion-fission reactions with deformed actinide targets at low incident energies

Yoshihiro Aritomo, Flerov Laboratory of Nuclear Reactions, Russia

The dynamical deformation in heavy ion collisions

Junqing Li, Institute of Modern Physics, Lanzhou, China

Investigation of high K states in ^{252}No and the new MUSETT silicon wall

Barbara Sulignano, CEA Saclay/DSM/Irfu/SPhN, France

What perspectives for the synthesis of heavier superheavy nuclei?

Giorgio Giardina, University of Messina, Italy,

Systematic calculations of alpha-decay half-lives of heavy and superheavy nuclei

Zhongzhou Ren, Nanjing University, China

First prompt in-beam gamma-ray spectroscopy of a superheavy element

Jérôme Rubert, IPHC, France

QCD and Relativistic Heavy-Ion Physics

Invited Talks:

Jet Measurements in Heavy Ion Collisions with an Upgraded PHENIX Detector

Dave Morrison, Brookhaven National Laboratory, USA

Observation of antimatter nuclei from the RHIC

Yu-Gang Ma, Shanghai Institute of Applied Physics, China

CBM Physics (tentative)
Claudia Hoehne, Giessen University, Germany

Probing Properties of QCD Matter with Strange and Heavy Quarks at RHIC
Huan Huang, U. of California at Los Angeles, USA

Viewing the Chemical Evolution of the QGP
Scott Pratt, Michigan State University, USA

Rho meson width at finite temperature from QCD sum rules (tentative)
Alejandro Ayala, Universidad Nacional Aut3noma de M3xico, Mexico

TBA
Jorgen Randrup (to be confirmed), Lawrence Berkeley National Lab., USA

Measurement of heavy flavour production in Pb-Pb collisions at the LHC with ALICE,
Robert Grajacarek, University of Heidelberg, Germany

Contributed Talks:

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

The Equation of State of Quasi-Particle Model at Finite Chemical potential and Quark Star
Hong-Shi Zong, Nanjing University, China

Hadrons In a Cold Nuclear Medium
Tulio Rodrigues, Physics Institute - USP, Brazil

Signatures of the QCD Phase Transition at finite Isopin
Rainer Stiele, Heidelberg University, Germany

Dihadron momentum imbalance and correlations in d+Au collisions,
Zhongbo Kang, Brookhaven National Laboratory, USA

Dilepton Emission in temperature Dependent baryonic Quark-Gluon Plasma,
S. Somorendro Singh, University of Delhi, India

The "soft ridge" -- is it initial-state geometry or modified jets?
Thomas Trainor, University of Washington, USA

Heavy quark energy loss in high multiplicity proton-proton collisions at the LHC
Sascha Vogel, Frankfurt Institute for Advanced Studies, Germany

Medium information from Harmonic Flow and Jet Quenching in Relativistic Heavy Ion Collisions
Subrata Pal, Tata Institute of Fundamental Research, Mumbai, India

Toward parton equilibration with improved parton interaction matrix elements
Bin Zhang, Arkansas State University, USA

Novel Bose-Einstein Interference Effects in the Passage of a Jet in a Dense Medium
Cheuk-Yin Wong, Oak Ridge National Laboratory, USA

UrQMD calculations of two-pion HBT correlations in central Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
Qingfeng Li, Huzhou Teachers College, China

Thermalization of charm quarks in infinite and finite quark-gluon plasma matter
Shanshan Cao, Duke University, USA

BOUND-FREE ELECTRON-POSITRON PAIR PRODUCTION WITH HEAVY IONS COLLISIONS AND WITH HEAVY ION ANTI-PROTON COLLISIONS
MELEK YILMAZ SENGUL, KADIR HAS UNIVERSITY, TURKEY

Triangular flow of charged particles in heavy ion collisions from the STAR experiment at RHIC
Yadav Pandit, Kent State University, USA

Gluodissociation and Screening of Upsilon States in Pb+Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV
Georg Wolschin, Heidelberg University, Germany

The elliptic flow of di-electron in 200 GeV Au+Au collisions at STAR
Xiangli Cui, U. of Science and Technology, China and Brookhaven National Laboratory, USA

Derivation of fluid dynamics from the Boltzmann equation
Gabriel Denicol, Frankfurt University, Germany

Hadronic resonance production in PbPb collisions from the ALICE experiment,
Anders Knospe, The University of Texas at Austin, USA

Measurement of J/psi production in Pb-Pb and pp collisions at the LHC with the ALICE experiment,

Martino Gagliardi, Università degli Studi and Sezione INFN Torino, Italy

Anisotropic flow in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ALICE experiment

Alexandru Dobrin, Wayne State University, USA

Strangeness production and propagation at sub-threshold energies

Yvonne Leifels, GSI, Germany

Medium effects on bottomonia suppression in relativistic heavy ion collisions,

Taesoo Song, Texas A&M University, USA

Thermalization of the quark-gluon plasma and dynamical formation of Bose condensation

Jinfeng Liao, Indiana University & RBRC, USA

High-pt Hadrons and direct photons results at RHIC

A. M. Hamed, Texas A&M University, USA

Shear viscosity and chemical equilibration of the QGP.

Salvatore Plumari, University of Catania, Italy

V(n) Studies with the PHENIX Detector (tentative)

Maya Shimomura, Iowa State University, USA

Heavy flavor physics with the PHENIX Detector (tentative)

Rachid Nouicer, Brookhaven National Laboratory, USA

Nuclear Structure

Invited Talks:

Precision mass measurements of n-rich nuclei from N=50 to N=82.

Juha Äystö, University of Jyväskylä, Jyväskylä, Finland

Nuclear response to two-neutron transfer via the (18O,16O) reaction

Manuela Cavallaro, INFN - LNS, Italy

Prompt and delayed γ -ray spectroscopy in the vicinity of ^{68}Ni at GANIL

Aurore DIJON, GANIL, FRANCE

Nuclear collectivity and shape evolution in exotic nuclei
Wolfram KORTEN, CEA Saclay, France

Structure of neutron-rich $A \gg 60$ nuclei: A theoretical perspective
Yang Sun, Shanghai Jiao Tong University, China

Recent RIBF experiments on nuclei in the "island of inversion" (tentative)
Nori Aoi, Research Center for Nuclear Physics, Osaka University, Japan

Contributed Talks:

Exploring the neutron dripline two neutrons at a time: Observations of ^{26}O and ^{16}Be ground state resonances
Z. Kohley, Michigan State University

Magnetic and Antimagnetic rotation band: a microscopic description
Jie Meng, School of Physics, Peking University, China

High-seniority states in spherical nuclei: Triple pair breaking in tin isotopes
Alain Astier, CNRS/IN2P3 - CSNSM Orsay, France

Giant resonances in ^{40}Ca and ^{48}Ca
Mason Anders, Texas A&M University, USA

Shell-model calculations of sd-shell nuclei
Furong Xu, Peking University, China

Alpha Cluster Structure in ^{13}C and $^{16,17}\text{O}$
Marcia Rodrigues, Instituto de Fisica - Universidade de Sao Paulo, Brazil

An improved nuclear mass formula
Ning Wang, Department of Physics, Guangxi Normal University, China

Lifetime measurements probing triple shape coexistence in ^{175}Au
Tuomas Grahn, University of Jyväskylä, Finland

Search for ^{28}Si cluster states through the $^{12}\text{C}+^{16}\text{O}$ radiative capture
Sandrine Courtin, IPHC and University of Strasbourg, France

Test of IMME in fp shell via direct mass measurements of $T_Z = -3/2$ nuclides
Yuhu Zhang, Institute of Modern Physics, Lanzhou, China

Theoretical studies of exotic drip-line nuclei
Lidia S. Ferreira, CFIF/ Instituto Superior Técnico, Lisboa, Portugal

Nuclear Energy and Applications of Nuclear Science and Technologies

Invited Talks:

Extension of the Liège Intra-Nuclear Cascade model to light ion-induced collisions for medical and space applications

Sylvie Leray, CEA/Saclay, IRFU/SPhN, France

Contributed Talks:

FIRST experiment: Fragmentation of Ions Relevant for Space and Therapy

Clementina Agodi, LNS INFN, Italy

Evaluation of tagging techniques of compound-nuclear gamma-decay probabilities for the indirect determination of neutron capture cross sections

Bethany Goldblum, University of California, Berkeley, USA

Abnormal screened potential of D-D fusion reaction in different host metals,

Tieshan Wang, School of Nuclear Science, Lanzhou University, China

Measurement of neutron yield by 70 MeV proton beam on a thick Beryllium target

Mikhail Osipenko, INFN, Genova, Italy

Study of the Production of Mo and Tc Medical Radioisotopes Via Proton Induced Nuclear Reaction on natMo

Abeer Alharbi, Princess Nora University, Saudi Arabia

Comparisons of hadron therapy-relevant data to nuclear interaction codes in the Geant4 toolkit

Benjamin Braunn, CEA/DSM/IRFU/SPhN, France

Fusion and Fission

Invited Talks:

Unexpected results in neutron-rich radioactive beams induced fusion,

Felix Liang, Oak Ridge National Laboratory, USA

Why the complete fusion of weakly bound nuclei is enhanced at sub-barrier energies and suppressed above the barrier

Paulo Gomes, Universidade Federal Fluminense, Brazil

Fusion-Fissions and Quasi-fissions of $^{32,34}\text{S}$ - and ^{48}Ti -induced Fissions at Near-barrier Energies

Huanqiao Zhang, China Institute of Atomic Energy, China

Yield of D-D and D-3He fusion reactions produced by the interaction of intense ultrafast laser pulses with molecular clusters

Marina Barbui, Cyclotron Institute, Texas A&M University, USA

Measurement of fusion cross sections in $^{12}\text{C} + ^{12}\text{C}$ at Low beam energies using a particle-gamma coincidence technique

Cheng Lie Jiang, Argonne National Laboratory, USA

Contributed Talks

Microscopic DC-TDHF study of heavy-ion potentials and fusion cross sections
V. E. Oberacker, Vanderbilt University, USA

Fusion near the coulomb barrier: A semiclassical view

Rajiv Gupta, Guru Nanak Dev University, India

The effect of positive Qxn-value neutron transfer on sub-barrier fusion reaction

Huiming Jia, China Institute of Atomic Energy, China

Fusion of $^{32}\text{S} + ^{48}\text{Ca}$ at deep sub-barrier energies

Giovanna Montagnoli, University of Padova and INFN, Italy

Cluster transfer in the reaction $^{16}\text{O} + ^{208}\text{Pb}$ and its role in understanding the suppression of fusion

Maurits Evers, The Australian National University, Australia

Effect of the shell closure on nuclear dissipation using neutron multiplicity as a probe

Bivash Behera, Panjab University, Chandigarh, India

Fusion excitation measurement for $^{20}\text{O} + ^{12}\text{C}$ for $E_{\text{lab}}/A=1-2$ MeV

ROMUALDO DESOUZA, Indiana University, USA

Fusion excitation function revisited

Philippe Eudes, SUBATECH, FRANCE

Spatial barrier distributions for $^8\text{B} + ^{58}\text{Ni}$ from a simultaneous optical model analysis of elastic scattering and fusion data

Arturo Gomez Camacho, Instituto Nacional de Investigaciones Nucleares, Mexico

Dynamical aspect of subbarrier fusion reaction in light heavy ion systems,
Meirong Huang, Institute of Modern Physics, CAS, China

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

Invited Talks:

The behavior of constrained caloric curves as ultimate signature of a phase transition for hot nuclei

Bernard Borderie, CNRS-IN2P3/Institut de Physique Nucléaire/Université Paris-Sud 11, France

Constraint Molecular Dynamics and zero temperature EOS for asymmetric nuclear matter

Massimo Papa, Institute on Nuclear Physics (INFN) - Catania, Italy

In-Medium Cluster Binding Energies and Mott Points in Low Density Nuclear Matter

Kris Hagel, Cyclotron Institute, Texas A & M University, USA

Reaction mechanisms in semi-classical transport theories: a test of the nuclear effective interaction

Maria Colonna, INFN - LNS, Catania, Italy

Fragment emission in Ca+Ca reactions at 25 MeV/nucleon

Ivano Lombardo, Univ. Federico II, Napoli and INFN-Sez. Napoli, Italy

Isotopic Trends in Dynamical Breakup

Sylvie Hudan, Indiana University, USA

Cluster correlations in multifragmentation

Akira Ono, Tohoku University, Japan

Experimental evidence of primary emission of light particles from compound nuclei prior to fission, 3-body or many-body breakup

Abdou Chbihi, GANIL, France

Boiling patterns of neutron-rich nuclear matter

Jan Toke, University of Rochester, USA

Three-body force effects on properties of neutron-rich nuclear matter

Wei Zuo, Institute of Modern Physics, Chinese Academy of Sciences, China

Contributed Talks:

Evidence for α -particle condensation in nuclei from the Hoyle state deexcitation

Adriana R. Raduta, NIPNE-Bucharest, Romania

Probing properties of nuclear interaction at intermediate energies via stopping
Zoran BASRAK, Ruder Boskovic Institute, HR-10002 Zagreb, Croatia

Constrained Molecular Dynamics Approach to Alpha-Clustered Nuclear Systems: Study of the reaction $^{28}\text{Si}+^{12}\text{C}$ at 7.5 MeV/nucleon
Gianluca Giuliani, Cyclotron Institute Texas A&M University, USA

On the isospin effects in flow and its disappearance and other related phenomena
Sakshi Gautam, Panjab University, Chandigarh, India

Density and Temperature of Fermions from Quantum Fluctuations
Hua Zheng, Texas A&M University, USA

A model for projectile fragmentation
Gargi Chaudhuri, Variable Energy Cyclotron Centre, India

Measurement of excitation energy of neutron-rich precursor fragments
David J. Morrissey, Michigan State University

Constraining statistical-model parameters for symmetric and asymmetric fission
Davide Mancusi, CEA, Centre de Saclay, France

Constraining the density dependence of the symmetry energy at low density using new observables from neck fragmentation mechanism,
Enrico De Filippo, INFN Catania, Italy

Neutron transfer reactions at large internuclear distances studied with the PRISMA spectrometer and the AGATA demonstrator
Daniele Montanari, Università degli Studi di Padova - INFN Padova, Italy

Competition between fusion-evaporation and multifragmentation in central collisions in $^{58}\text{Ni}+^{48}\text{Ca}$ reaction at 25 A MeV
Laura Francalanza, Dipartimento di Fisica - INFN Catania, Italia

Isovector channel of quark-meson-coupling model and its effect on symmetry energy

Xiaobao Wang, Peking University, China

Role of neutrons to protons ratio in determining the symmetry energy at sub and supra-saturation densities

Sanjeev Kumar, Shanghai Institute of Applied Physics, China

Tensor force induced short-range nucleon-nucleon correlation and high-density behavior of nuclear symmetry energy

Chang Xu, Nanjing University, China

Nuclear symmetry energy and the role of the tensor force

Isaac Vidana, University of Coimbra, Portugal

Exploring the density dependence of the symmetry energy with isotopic distributions

Paola Marini, GANIL, France

Isospin Dependence of Nuclear Caloric Curves

Alan McIntosh, Texas A&M University, USA

Shear viscosity to entropy density ratio of nuclear matter by transport model,

Deqing Fang, Shanghai Institute of Applied Physics, China

Bose-Einstein Condensate in Nuclei

Katarzyna Schmidt, Texas A&M University, USA

Probing the symmetry energy with isospin ratio and flow from nucleons to fragments

YINGXUN ZHANG, CHINA INSTITUTE OF ATOMIC ENERGY, CHINA

The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities

Paolo Russotto, INFN-LNS & Università di Catania, Italy

Nuclear Reactions and Structure of Unstable Nuclei

Invited Talks:

Breakup/Transfer Channel Couplings in Sub-barrier Fusion Reactions

Christian BECK, Institut Pluridisciplinaire Hubert Curien IN2P3/CNRS and University of Strasbourg, FRANCE

Knockout reaction for exotic nuclei with recoil proton tagging
Yanlin Ye, Peking University, China

Reactions with Weakly Bound Cluster Nuclei
Yuri Penionzhkevich, Joint Institute for Nuclear Research, Dubna, Russia

Experimental results on the Coulomb excitation of exotic nuclei at the
R3B-LAND setup
Dominic Rossi, GSI Darmstadt, Germany

Single Particle Fragmentation Strengths in One Neutron Breakup Reactions
Florin Carstoiu, IFIN-HH Bucharest

Contributed Talks:

Nuclear and Coulomb excitations of low-lying dipole states in exotic and stable
nuclei
Edoardo G. Lanza, INFN - Sezione di Catania, Italy

Significance of nuclear structure effects in decay of stable and excited nuclei
Manie Bansal, Panjab University, CHANDIGARH- 160014, India

Near-Far Description of Elastic and Breakup Reactions of Halo Nuclei
Mahir S. HUSSEIN, University of Sao Paulo, Brazil

Coulomb distortion and medium corrections in nucleon-removal reactions
Mesut Karakoc, Texas A&M University-Commerce, USA

Elastic scattering measurement for $^{17}\text{O} + ^{58}\text{Ni}$ at Coulomb barrier with Silicon
strip detectors exploiting ASIC electronics
Cosimo Signorini, University of Padova and INFN, Padova, Italy

Identification of a possible new island of inversion
Oleg Tarasov, Michigan State University, USA

Investigating the role of the tensor force in heavy-ion collisions using
nucleus-nucleus potential description
Yoritaka Iwata, Extreme Matter Institute, GSI, Darmstadt, Germany

$7\text{Be}, 8\text{B} + ^{208}\text{Pb}$ Elastic Scattering at Intermediate Energies
Jiansong Wang, Institute of Modern Physics, Lanzhou, China

β -decay of the light neutron-rich nuclei
Hui Hua, Peking University, P.R. China

Nuclear structure at and across the drip-line for nuclei with $A=13,14$

Haik Simon, GSI, Germany

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

Valdir Guimaraes, Universidade de Sao Paulo, Brazil

Inclusive Coulomb and nuclear breakup of neutron-rich Ne, Mg, and Si isotopes

Nobuyuki Kobayashi, Tokyo Institute of Technology, Japan

Nuclear Astrophysics and Equation of State of Nuclear Matter

Invited Talks:

Magnetised neutron star crusts and shear mode oscillations

Debades Bandyopadhyay, Saha Institute of Nuclear Physics, India

Pygmies, Giants, and Skins

Jorge Piekarewicz, Florida State University, USA

The Fluorine Destruction in Stars: First Experimental Study of the $^{19}\text{F}(p, \alpha_0)^{16}\text{O}$ Reaction at Astrophysical Energies

M. La Cognata, INFN-Laboratori Nazionali del Sud, Catania, Italy

Direct Mass Measurements of Short-Lived $A=2Z-1$ Nuclides ^{63}Ge , ^{65}As , ^{67}Se , and ^{71}Kr and Their Impact on Nucleosynthesis in the rp Process (tentative)

Hushan Xu, Institute of Modern Physics, Lanzhou, China

Contributed Talks:

New Results with TECSA – the $d(^{26}\text{Alm}, p)^{27}\text{Al}$ experiment

Brian Roeder, Texas A&M University, USA

Antikaons in neutron stars studied with extended relativistic mean-field models

Neha Gupta, Indian Institute of Technology Roorkee, India

Experimental study of the $^{18}\text{O}(d, p)^{19}\text{O}$ reaction and the ANC Method

Vaclav Burjan, Nuclear Physics Institute, Czech Academy of Sciences, Rez, Czech Republic

Trojan Horse method and radioactive ion beams: study of $^{18}\text{F}(p, \alpha)^{15}\text{O}$ reaction at astrophysical energies

Marisa Gulino, INFN, LNS and Univesita' degli Studi di Enna Kore, Italy

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
Brian Bucher, University of Notre Dame, USA

Quantum Monte Carlo study of inhomogeneous neutron matter and neutron stars
Stefano Gandolfi, Los Alamos National Laboratory, USA

A dynamical description of neutron star crusts
Virginia de la Mota, SUBATECH/in2p3(cnrs)/University of Nantes, France

Combining terrestrial experiments and neutron star observations to constrain
the equation of state of asymmetric nuclear matter
William Newton, Texas A&M University-Commerce, USA

New Facilities and Detectors

Invited Talks:

The latest status of the Gamma-Ray Energy Tracking Array (GRETINA)
I.Y. Lee, Lawrence Berkeley National Laboratory, USA

The Extreme Light Infrastructure - Nuclear Physics (ELI-NP) Project
*N.V. Zamfir, 'Horia Hulubei' National Institute of Physics and Nuclear
Engineering (IFIN-HH), Bucharest-Magurele, Romania*

The Advanced Gamma Ray Tracking Array AGATA
Dino Bazzacco, INFN Sezione di Padova, Italy

Contributed Talks:

Performance of Indian National Gamma Detector Array (INGA) Coupled with a
Fast Digital Data Acquisition System for Nuclear Structure Studies
Rudrajyoti Palit, Tata Institute of Fundamental Research, India

Study of Spatial Resolution and Muon Tomographic Imaging Properties of
Glass RPCs
Qite Li, Peking University, China

The Farcos project: Femtoscope Array for Correlations and Spectroscopy,
Giuseppe Verde, INFN, Sezione di Catania, Italy