

Preliminary Program



Monday 30.8

19:30 – 21:00 Key-note lectures

Walter Henning (ANL) – Nuclear Physics Experiment
James P. Vary (Iowa) – Nuclear Physics Theory

Tuesday 31.8

8:30 – 10 :30 Computing Atomic Nuclei: Frontiers of Nuclear Structure Theory

Chair: Witek Nazarewicz (Tennessee/Warszawa)
Lectures: Achim Schwenk (TRIUMF/Darmstadt) – Neutron-rich matter
Wojtek Satuła (Warszawa) – Isospin mixing around $N=Z$
Dario Vretenar (Zagreb) – Relativistic nuclear density functional theory

Seminars

11:00–13:00 Superheavy nuclei

Chair: Matti Leino (Jyväskylä)
Lectures: Dieter Ackerman (GSI) – Status of the experiments on superheavy elements
Paul Greenlees (Jyväskylä) – Gamma and electron spectroscopy of the heaviest elements
Sergey Dmitriev (Dubna) – Radiochemical investigation of superheavy elements

Seminars

19:00 – 22:00 Proton-rich nuclei

Chair: Mike Bentley (York)
Lectures: Bertram Blank (Bordeaux) – $2p$ decay
Bob Wadsworth (York) – Spectroscopy of $N \sim Z$ nuclei above mass 30
Dirk Rudolph (Lund) – Proton-rich nuclei studied with RISING
Tommi Eronen (Jyväskylä) – Mass measurements of proton rich-nuclei with JYFLTRAP
Moshe Gai (Yale) – The structure of carbon and carbon formation in stellar helium burning, studied with an optical readout TPC

Seminars

Midnight-school Symmetries in Nuclei – Guidelines for Experiment and Theory

Guidance : Jerzy Dudek (Strasbourg)

Wednesday 01.09

8:30 – 13:00 Neutron-rich nuclei

Chair: Faïçal Azaiez (Orsay)
Lectures: Hiroyoshi Sakurai (RIKEN) – Recent results from RIKEN on neutron rich nuclei
Daniel Bazin (MSU) – Recent results from MSU on neutron-rich nuclei
Didier Beaumel (Orsay) – Single-particle structure evolution in neutron rich nuclei from transfer reactions
Giacomo De Angelis (Legnaro) – Recent results from LNL on the structure of neutron-rich nuclei
Krzysztof Rykaczewski (ORNL) – Recent results from Oak Ridge
Reiner Krücken (München) – Recent Results from REX-ISOLDE

Seminars

19:00 – 22:00 Beyond nuclear physics

Chair: Christoph Scheidenberger (GSI)
Lectures: Joseph Pochodzalla (Mainz) – Hypernuclei
Jürgen Gerl (GSI) – Nuclear techniques for landmine detection
Andrzej Rybicki (Kraków) – What is the role of nuclear effects in ultrarelativistic reactions at 158 GeV/nucleon ?

Marek Kowalski (Kraków) – First results of charged particle production in the ALICE experiment at LHC

Ludwik Pienkowski (Warszawa) – Nuclear cogeneration

Peter Thirolf (München) – Laser particle acceleration: status and perspectives for nuclear physics

Seminars

Thursday 02.9

8:30 – 10 :30 Computing Atomic Nuclei: Frontiers of Nuclear Structure Theory

Chair: Witold Nazarewicz (Tennessee/Warszawa)
Lectures: Morten Hjorth-Jensen (Oslo) – Modern theory of effective interactions
Stuart Pittel (Delaware) – The density matrix renormalization group and the shell model
Frederic Nowacki (Strasbourg) – Large-scale shell model

Seminars

evening Flash talks, various seminars and Poster Session

Friday 03.9

8:30 – 13:00 Collective modes

Chair: Angela Bracco (Milano)
Lectures: Takashi Nakatsukasa (RIKEN) – Self-consistent description of nuclear photoabsorption cross sections
Franco Camera (Milano) – Prompt dipole gamma emission
Walter Reviol (St. Louis) – Tidal waves and onset of collectivity above $N = 126$
Umesh Garg (Notre Dame) – Nuclear compressibility, symmetry energy and superfluidity through IS GDR measurements
Sunniva Siem (Oslo) – Soft dipole modes - overview and recent results
Indranil Mazumdar (Mumbai) – Search for GQR in hot nuclei

Seminars

19:00 – 22:00 Nuclear reactions and spectroscopy with novel techniques

Chair: Marek Lewitowicz (GANIL)
Lectures: Silvia Leoni (Milano) – Reaction dynamics and nuclear structure studies of neutron rich nuclei around ^{48}Ca with PRISMA-CLARA experiments
Wojciech Królas (Kraków) – Neutron-rich nuclei populated in deep-inelastic collisions: reaction mechanism features important for spectroscopy
Navin Alahari (GANIL) – Accessing the neutron rich frontier at VAMOS: From gentle rearrangement to equilibration
Hans-Jürgen Wollersheim (GSI) – Relativistic coulomb excitation: from RISING to PreSpec
Wolfram Kortem (Saclay) – Recent experimental advances for measuring nuclear collectivity

Seminars

Saturday 04.9

8:30 – 13:00 Structure of light nuclei and astrophysics

Chair: Tohru Motobayashi (RIKEN)
Lectures: Hisashi Horiuchi (Osaka) – Overview on the cluster structure and the alpha-condensation
Christian Beck (Strasbourg) – Clusters in Light Nuclei
David Jenkins (Univ. of York) – Nuclear clustering studied by gamma-ray spectroscopy
Silvio Cherubini (Catania) – “Trojan horse” method
Michael Hass (Rehovot) – Status of experiments with astrophysical reactions

13:00 – 14:00 Special Lecture

Michał Heller (Kraków) – Lemaitre's Primeval Atom and contemporary standard world model