

# PROGRAMME

## Monday, June 22

### Morning session

- 09:30 – 10:15 *R.J. Peterson*: Comparison of  $y$ -scaling for Electrons and Hadrons
- 10:15 – 10:35 *Coffee*
- 10:35 – 11:20 *C. Giusti*: Relativistic Models of Quasielastic Electron and Neutrino-Nucleus Scattering
- 11:30 – 12:15 *A. Cowley*: Mechanism of Proton-induced  $\alpha$ -particle and Helion Emission into the Continuum of Outgoing Energies
- 12:25 – 13:10 *Yo. Ilieva*: Probing Nuclear Dynamics in Exclusive Meson Photoproduction
- 17:10 – 17:30 *Coffee*

### Afternoon session

- 17:30 – 18:15 *F. Sammarruca*: Recent Progress with ab initio Calculations of Nuclear Matter
- 18:20 – 18:50 *Ch. Moustakidis*: Equation of State for Dense Supernova Matter
- 18:55 – 19:15 *Tz. Apostolova*: Nonlocal Electron Dynamics in the Presence of Pulsed Laser Irradiation

## Tuesday, June 23

### Morning session

- 09:30 – 10:15 *R. Machleidt*: The Missing Three-nucleon Forces: Where are they?
- 10:15 – 10:35 *Coffee*
- 10:35 – 11:20 *A.F. Krutov*: Instant Form of Relativistic Quantum Mechanics and the Electromagnetic Structure of Composite Systems
- 11:30 – 12:15 *M. Avrigeanu*: On the Alpha-particle Optical Potential for Astrophysical Studies
- 12:25 – 13:10 *K.V. Lukyanov*: The  $K^+$ -Nucleus Microscopic Optical Potential of Scattering and Calculations of the Corresponding Differential Elastic and Total Reaction Cross Sections

16:00 – 16:20 *Coffee*

### Afternoon session

- 16:20 – 17:05 *S. Strauch*: Medium Modifications from  ${}^4\text{He}(\vec{e}, e'\vec{p}){}^3\text{H}$
- 17:10 – 17:55 *G. Rainovski*: Evolution and Shell Stabilization of Proton-Neutron Mixed Symmetry States in the Mass  $A \approx 130$  Region
- 18:00 – 18:30 *M. Gaidarov*: A Microscopic Optical Potential Approach to  ${}^{6,8}\text{He}+p$  Elastic Scattering
- 18:35 – 19:05 *S. Dimitrova*: Two Approximate Approaches for Solving the Large-scale Shell-model Problem

## Wednesday, June 24

### Morning session

- 09:30 – 10:15 *D. Bonatsos*: The Bohr Hamiltonian with the Morse Potential: Analytical Solutions through the Asymptotic Iteration Method
- 10:15 – 10:35 *Coffee*
- 10:35 – 11:05 *N. Minkov*: Coriolis Interaction in Nuclear Single-Particle States with Mixed Parity
- 11:10 – 11:40 *H. Ganev*: Structure of the Doublet Bands in Doubly Odd Nuclei with Mass Around 130
- 11:45 – 12:15 *V. Garistov*: Unified Description of the Yrast Lines
- 12:20 – 12:50 *S. Lalkovski*: The Nucleus  ${}^{106}\text{Zr}$  and the Structural Evolution below  ${}^{132}\text{Sn}$
- 16:00 – 16:20 *Coffee*

### Afternoon session

- 16:20 – 16:50 *V. De Donno*: Nuclear Excited States within Random Phase Approximation Theory
- 16:55 – 17:15 *G. Deyanova*: Systematic Study of Signature Inversion in  $\pi h_{11/2} \times \nu h_{11/2}$  Structure in  ${}^{136}\text{La}$  and  $A = 130 \sim 140$  Mass Region
- 17:20 – 17:40 *P. Detistov*: Simulations of the AGATA Response to Relativistic Heavy Ions Beams
- 17:45 – 18:15 *S. Mishev*: An Extended Approximation for the Low-lying States in Odd-mass Nuclei

## Thursday, June 25

### EXCURSION

## Friday, June 26

### Morning session

- 09:30 – 10:15 *H. Wolter*: Equation-of-State of Nuclear Matter with Light Cluster Correlations
- 10:15 – 10:35 *Coffee*
- 10:35 – 11:20 *L. Bonneau*: Time-odd Effects on Single-particle Spectra of Odd-mass Nuclei within a Skyrme–Hartree–Fock Approach
- 11:30 – 12:15 *N. Chamel*: Hartree-Fock-Bogoliubov Mass Models and the Description of Neutron-star Crusts
- 12:25 – 13:10 *E. Suraud*: Towards the Microscopic Description of the Irradiation of Biomolecules