

IWNT43, 28 June – 4 July 2026, PROGRAMME

Monday, 29 June

Morning session

09:30 - 09:45 *Opening*

09:45 - 10:10 **M. Sharma:** “R-process nuclei in the rare-earth region above $N=126$ in relativistic Hartree-Bogoliubov theory: A preponderance of shape-coexistence in nuclei”

10:10 - 10:35 **P. Koliogiannis:** “Equation-of-state-independent constraints on neutron-star properties from nuclear dipole polarizability”

10:35 - 11:05 *Coffee*

11:05 - 11:30 **P. Baganu** (remote): “Bohr-Mottelson Hamiltonian with octic potential and the shape coexistence phenomenon”

11:30 - 11:55 **L. El Ouairti** (remote): “Probing alternating-parity bands in even-even nuclei within an axial quadrupole octupole hexadecapole collective model”

11:55 - 12:20 **I. Mazumdar** (remote): “Probing nuclear collective motion at finite temperature and angular momentum: The fusion-fission route”

14:00 - 17:00 Borovets sightseeing

Tuesday, 30 June

Morning session

09:30 - 09:55 **Q. Micha Mba:** “Bootstrapping two-nucleon effective field theories”

09:55 - 10:20 **Ch. Moustakidis** (remote): “Effects of short-range correlations on quarkyonic matter”

10:20 - 10:45 **D. Vale** (remote): “Insights into the isovector giant dipole resonance from a relativistic SRPA perspective”

10:45 - 11:15 *Coffee*

- 11:15 - 11:40 **N. Minkov:** “Theoretical study of the ^{229m}Th isomer”
- 11:40 - 12:05 **C. Anghel:** “Alpha decay of superheavy nuclei with $Z=118-122$ ”

Afternoon session

15:30 - 16:00 *Coffee*

- 16:00 – 16:25 **M. Ivanov:** “Charged-current quasielastic-like neutrino scattering from ^{12}C in the coherent density fluctuation model with two-nucleon emission”
- 16:25 – 16:50 **F. Lassiaille** (remote): “Surrounding and the missing chapter in general relativity: A unified approach to gravitational mysteries and nuclear theory”
- 16:50 – 17:15 **A. Boutahra** (remote): “The optimization of LIPS and MCNP simulation to improve radioactivity detection limits in thermal waters”

Wednesday, 1 July

Morning session

Session devoted to the 90th Anniversary of Professor Valery Lukyanov

- 09:30 – 09:55 **M. Gaidarov:** “V.K. Lukyanov: 90 years anniversary”
- 09:55 – 10:20 **C. Elster:** “*Ab initio* optical potentials for magnesium isotopes: Case study for extrapolation to the neutron dripline”
- 10:20 – 10:45 **I. Abdumagead:** “The nuclear matter effect on the NN-amplitude of scattering from analysis of nuclear scattering data”
- 10:45 – 11:15 *Coffee*
- 11:15 – 11:40 **D. Neraki** (remote): “Identifying quark and hadronic compact stars with supervised learning”

Afternoon session

15:30 - 16:00 *Coffee*

16:00 – 16:25 **D. Grigorova:** “Introduction of effective charges in the Vector Boson Model”

16:25 – 16:50 **A. Afanasjev** (remote): “Optimization of harmonic oscillator basis for static and dynamic calculations”

19:30 **OFFICIAL DINNER**

Thursday, 2 July

EXCURSION

Friday, 3 July

Morning session

09:30 - 09:55 **I. Tagdamte** (remote): “Bohr Hamiltonian with sextic potential for γ -rigid prolate nuclei with a decatic deformation-dependent mass term”

09:55 - 10:20 **R. Benjedi** (remote): “Study of the shape coexistence in $^{52,54}\text{Cr}$ ”

10:20 - 10:50 *Coffee*

10:50 - 11:15 **K. Drumev:** “Algebraic microscopic approaches for the description of low-lying collective dynamics in nuclei”

11:15 - 11:25 *Closing*