

PROGRAMME

Monday, July 1

MORNING session

- 09:30 09:45 **OPENING**09:45 10:15 **D. Roux:** Something from nothing: The gamma ray spectroses
- 09:45 10:15 **D. Roux**: Something from nothing: The gamma-ray spectroscopy of Uranium-231
- 10:15 10:45 **S. Kerrouchi**: Machine learning's role in advancing theoretical nuclear structure understanding
- 10:45 11:15 COFFEE
- 11:15 11:45 **N. Minkov**: Probing the stability of quadrupole-octupole deformation in Xe-Ba-Ce mass region
- 11:45 12:15 **D. Vale** (*remote*): Rearrangement terms in relativistic point coupling models in Second Tamm-Dancoff approximation

AFTERNOON session

- 17:00 17:30 COFFEE
- 17:30-18:00 **R. Benjedi** (*remote*): Investigation of the shape coexistence and mixing phenomena in the 42,44 Ca isotopes
- 18:00 18:30 **F. Lassiaille** (*remote*): Relativity predicts a variable G

Tuesday, July 2

MORNING session

- 09:30 10:00 **D. Rodriguez Entem**: NN chiral EFT and non-perturbative renormalization
- 10:00 10:30 **A.-l. Budaca**: Radioactive decay with a screened electrostatic interaction
- 10:30 11:00 **B. Cai** (*remote*): Isomeric structure in 100 Sn region: Possible competition between β^+ decay and proton emission in isomeric unbound nucleus 97 Sn
- 11:00 11:30 COFFEE
- 12:00 12:30 **A. Modabbir** (*remote*): Influence of effective surface property on nuclear structure within coherent density fluctuation model

AFTERNOON session

- 15:30 16:00 COFFEE
- 16:00 16:30 **M. Ivanov**: Superscaling analysis of inclusive electron and neutrino (antineutrino) scattering within the coherent density fluctuation model
- 16:30 17:00 **Y. Mutafchieva**: The influence of strong magnetic fields on the structure and composition of neutron star crusts
- 17:00 17:30 **G. Popa** (*remote*): Analysis of elastic scattering observables calculated with different NN interactions
- 17:30 18:00 **J. Palamadai** (*remote*): Simulation of flow blockage scenarios in compact fast reactors with pin-type fuel assemblies

Wednesday, July 3

MORNING session

- 09:30 10:00 **J.J. Van Zyl**: Contributions of Professor Anthony Cowley to the field of nuclear reaction studies
- 10:00 10:30 **A. Deltuva** (*remote*): New developments in few-cluster nuclear reactions
- 10:30-11:00 **M. Gaidarov**: Microscopic analysis of elastic scattering of one-proton halo nucleus ^{17}F on different mass targets
- 11:00 11:30 COFFEE
- 11:30 12:00 **P. Kuznietsov** (*remote*): Analysis of elastic α -⁵⁸Ni scattering in the energy region 82-699 MeV by the S-matrix model
- 12:00 12:30 **S. Dimitrova**: Shell model corrections to proton induced preequilibrium reactions

AFTERNOON session

- 15:30 16:00 COFFEE
- 16:00-16:30 **Md. Abdullah** (*remote*): Alpha-nucleus potentials for targets near Z=50
- 16:30 17:00 **Surender** (*remote*): Interference effects in breakup reaction of halo nuclei
- 17:00 17:30 **I.V. Petrov**: Marquise du Châtelet: acquainting Europe with Newtonian phylosophy

20:00 – **OFFICIAL DINNER**

Thursday, July 4

EXCURSION



Friday, July 5

MORNING session

tain potentials

09:30 - 10:00**i. Sarpün**: Single folding potential calculations in Cerium isotopes K. Drumev: Role of the higher-spin configurations and the univer-10:00 - 10:30sal description of low-energy structure of $N \sim Z$ even-even sd-shell nuclei in the algebraic microscopic mixed-mode approach **A. El Batoul** (remote): Investigating α -decay processes with 10:30 - 11:00position-dependent effective mass 11:00 - 11:30**COFFEE** M. Imran (remote): Reaction cross sections and density distributions 11:30 - 12:00of neutron-rich halo nuclei 12:00 - 12:30M. El Adri (remote): Impact of the nuclear shape on the soft monopole resonance in the Z=58 nucleus within DD-ME2+QFAM 12:30 - 13:00**A. Hanaia** (remote): Solving deformed quantum equations with cer-