

PROGRAMME

Monday, July 3

MORNING session

- 09:30 09:45 **OPENING**
- 09:45 10:15 **C. Giusti**: Microscopic optical potentials from chiral forces and *Ab initio* nuclear densities
- 10:15 10:45 K. Neergård: "Onishi" formulas
- 10:45 11:15 COFFEE
- 11:15 11:45 **N. Minkov**: Two-quasiparticle K-isomers in heavy nuclei within self-consistent Skyrme Hartree-Fock plus BCS approach
- 11:45 12:15 **M. Oudih**: Alpha and cluster decay investigation of even-even actinide nuclei
- 12:15 12:45 **S. Baid**: Analytical solutions of the Bohr Hamiltonian with the sextic oscillator: Pt-Os isotopes

AFTERNOON session

- 16:00 16:30 COFFEE
- 16:30 17:00 **P. Kuznietsov** (*remote*): Analysis of ${}^4\text{He}$ elastic scattering on ${}^{208}\text{Pb}$ and ${}^{58}\text{Ni}$ nuclei at high energies by the S-matrix approach
- 17:00 17:30 **M. Hadizadeh** (*remote*): Four-body bound states: a *t*-matrix-free approach to Yakubovsky equations
- 17:30 18:00 **N. Firdous** (*remote*): Simulation of hadron-hadron collisions at high energies
 - **N. Firdous** (*remote*): Study of free parameters of phenomenological models implemented in PYTHIA
- 18:00 18:30 **M. Belgaid**: Newly developed semi-empirical formulas of nuclear excitation functions for (n,p) reactions at the energy range $12 \le E_n \le 21$ MeV and mass number range $30 \le A \le 128$
- 18:30 19:00 **F. Benrachi** (remote): Shell model calculations of even-A nuclides on the neighbourhood of 40 Ca core

Tuesday, July 4

MORNING session

MODINING SE	SSIOII		
09:30 – 10:00	P. Ring : Relativistic Brueckner-Hartree-Fock theory: an "ab initio" approach for nuclear matter and for finite nuclei		
10:00 – 10:30	Y. El Bassem (<i>remote</i>): Nuclear shape evolution in even-even Pd isotopic chain within the covariant density functional theory		
10:30 - 11:00	M. Gaidarov: Microscopic study of nuclear monopole excitations		
11:00 – 11:30	COFFEE		
11:30 – 12:00	F. Sammarruca : The multiple personalities of neutron matter		
12:00 – 12:30	$\dot{\textbf{I}}.$ $\textbf{Sarp\"{u}n}:$ Theoretical calculations of Cerium nucleon densities by Skyrme and Gogny forces		
12:30 - 13:00	B. Maheshwari : Seniority isomerism and configuration mixing		
AFTERNOON session			
15:30 – 16:00	COFFEE		
16:00 – 16:30	$\textbf{V. Belocchi} : Meson \ exchange \ current \ in \ neutrino-nucleus \ scattering$		
16:30 – 17:00	M. Ivanov : Charge-current and neutral-current quasielastic (anti)neutrino scattering on 12C target with realistic spectral and scaling functions		
17:00 – 17:30	N. Laouet ($remote$): Odd-odd $A \sim 80$ systems spectroscopic properties in the vicinity of rp -process path		
17:30 – 18:00	S. Saha (<i>remote</i>): Astrophysical reaction rate of $^{17}{\rm O}(\alpha,n)^{20}{\rm Ne}$ in R-matrix formalism		
18:00 – 18:30	Gh. Saleh (<i>remote</i>): Primary particles produced by the Big Bang explosion		
18:30 – 19:00	E. Tel : Studies of empirical formulas for total reaction cross sections at 14–15 MeV neutrons		

Wednesday, July 5

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09:30 - 10:00	R. Machleidt: What is ab initio?
10:00 – 10:30	M. Barbaro : Determination of the moments of the proton charge density: is there a proton radius puzzle?
10:30 - 11:00	J.A. Caballero:
11:00 – 11:30	COFFEE
11:30 – 12:00	N. Büyükçzimeci : Transport model simulations to determine of the newly formed nuclei of hadrons
12:00 – 12:30	V. Nesterenko (<i>remote</i>): Anomalous deformation dependence of moments of inertia
12:30 – 13:00	Shan-Gui Zhou : Study of rotating deformed halo nuclei with the DRHBc+AMP theory

AFTERNOON session

15:30 – 16:00	COFFEE
16:00 – 16:30	M. Kaur ($remote$): Clustering effects in 41,45,49 Ca* formed in neutron induced reactions
16:30 – 17:00	M. El Adri ($remote$): Monopole and quadrupole coupling in the isoscalar giant resonances in ^{94}Zr and ^{96}Zr
17:00 – 17:30	K. Drumev : Mixed-mode dynamics and description of collective states in nuclear systems
17:30 - 18:00	M. Bouhelal ($remote$): Properties of 26 Mg in the sd shell model
18:00 – 18:30	I.V. Petrov : Nobel prize 2022: The new quantum revolution

19:30 – **OFFICIAL DINNER**

Thursday, July 6

EXCURSION



Friday, July 7

MORNING session

09:30 – 10:00	P. Kostryukov : Study of particle emission effects in low- and medium-energy nuclear fission
10:00 – 10:30	S. Kaliraman (<i>remote</i>): Interference effects in breakup reaction of the exotic nuclei
10:30 - 11:00	P. Kumar (remote): Nuclear structure study of mirror nuclei
11:00 – 11:30	COFFEE
11:30 – 12:00	F. Lassiaille: Relativity in motion
12:00 – 12:30	S. Lim (<i>remote</i>): Self-sustaining neutron multiplication in Bismuth salts
12:30 – 13:00	A. Selim ($remote$): Description of the spectroscopic properties of 24 Al

AFTERNOON session

14:30 – 15:00	COFFEE
15:00 - 15:20	S. Garah (remote): Dirac osillator in non-Abelian algebra
15:20 – 15:40	Rajni (<i>remote</i>): Study of Nuclear Surface Diffuseness in Quadrupole and Hexadecapole Deformed Nuclei
15:40 – 16:00	M. Nisa (remote): Multiparton interactions in PYTHIA
16:00 - 16:20	T. Nazir (remote): Color reconnection in PYTHIA
16:20 - 16:40	S. Akkoyun (remote):
16:40 - 16:50	CLOSING