

## **Tuesday 24 June**

09:00 Tuesday: (Chairman: B. Mukeru) Session | Location: BLTP, conference hall 09:00-09:30 Phase diagram of nuclear natter. Collective effects and phase transitions in nuclear systems. Speaker Prof. Dmitry Voskresensky 09:30-10:00 METHOD OF OPTIMIZATION OF EMPIRICAL INTERATOMIC POTENTIALS Speaker M.Y. Shatalov 10:00-10:30 A NOVEL APPROACH TO PARAMETRIC EVALUATION OF THE BUCKINGHAM INTERATOMIC **POTENTIAL** Speaker M.Y. Shatalov 10:30 11:00 Tuesday: (Chairman: H. Dlamini) Session | Location: BLTP, conference hall 11:00-11:30 Basis invariants in two-higgs-doublet model: Hilbert series, syzygies, and renormalization-group equation Speaker Alexander Bednyakov 11:30–12:00 CFD: A powerful virtual laboratory for fluid dynamics Speaker Pedro Mafa 12:00 13:30 Tuesday: (Chairman: I. Sinayskiy) Session | Location: BLTP, conference hall 13:30-14:00 SELF-ORGANIZATION OF CHARGED PARTICLES IN LATERAL POTENTAILS WITH HIGH SYMMETRY Speaker Dr Rashid Nazmitdinov 14:00-14:30 Scissors mode in 254No Speaker Мария Мардыбан 14:30-15:00 Acceleration and twisting of neutral atoms by laser fields Speaker Vladimir Melezhik 15:00

## 15:30 Tuesday: (Chairman: P. Mafa) Session | Location: BLTP, conference hall 15:30–16:00 Quantum Algorithms for the Quantum Simulation of Closed and Open Quantum Systems Speaker lan Joel David 16:00–16:30 Study of spatial structures in α-cluster nuclei by the Feynman Path Integral method Speaker Prof. Viacheslav Samarin 16:30-17:00 An Introduction to Quantum Computing and Quantum Machine Learning with Quantum Parametric Circuits Speaker Ilya Sinayskiy 17:00