PROGRAMME

Monday, June 25

Morning session

09:30 – 10:00 Opening of the Workshop and Talk of *Prof. Yordan Stamenov*

10:00 – 10:20 *Coffee*

10:20 – 11:05 *Rick Casten*: Exotic Nuclei and the Evolution of Structure Across the Nuclear Chart

11:15 – 12:00 *Kobus Lawrie*: Recent Results from the Experimental Nuclear Structure Program at iThemba LABS

12:10 – 12:55 *Stephane Platchkov*: Spin Structure of the Nucleon: Recent Results from the COMPASS Experiment at CERN

16:30 – 17:00 *Coffee*

Afternoon session

17:00 – 17:45 *Mario Stoitsov*: Continuum Hartree-Fock-Bogoliubov Calculations

17:55 – 18:40 *Valentin Nesterenko*: TDDFT for Skyrme Forces: Basic Points and Recent Advances

18:50 – 19:35 *Andrej Vdovin*: Gamow-Teller Transitions in Hot Nuclei

Tuesday, June 26

Morning session

09:30 – 10:15 *Juan Caballero*: A Study of Electroweak Processes in the Relativistic Impulse Approximation: Does a "Universal" Scaling Function Emerge?

10:15 – 10:35 *Coffee*

10:35 – 11:20 *Maria Barbaro*: Electron and Neutrino Scattering Off Nuclei in the Δ-Resonance Region and Beyond

11:30 – 12:15 *Anton Antonov*: Superscaling in a Dilute Fermi Gas and the Nucleon Momentum Distribution in Nuclei

12:25 – 12:55 *Cristina Martínez*: Superscaling Analysis of Neutral-Current Neutrino Quasielastic Cross Sections within the Relativistic Impulse Approximation

12:55 – 13:25 *Martin Ivanov*: Superscaling and Neutral Current Quasielastic Neutrino–Nucleus Scattering beyond the Relativistic Fermi Gas Model

15:30 – 16:00 *Coffee*

Afternoon session

16:00 – 16:45 *Pedro Sarriguren*: Signatures of Nuclear Deformation in Single and Double Beta Decay

16:55 – 17:40 *Nicholas Keeley*: Transfer Coupling Effects on Elastic Scattering and Fusion for Weakly Bound Exotic Nuclei

17:50 – 18:35 *Planem Krastev*: Effective Interactions in Neutron-Rich Matter

18:45 – 19:30 *Panagiota Papakonstantinou*: Nuclear Collective Excitations Using Correlated Realistic Interactions: Beyond Standard RPA

Wednesday, June 27

Morning session

09:30 – 10:15 *Werner Scheid*: Evolution of the Dinuclear System in Fission, Quasifission, Incomplete and Complete Fusion

10:15 – 10:35 *Coffee*

10:35 – 11:20 *Dennis Bonatsos*: Exactly Separable Version of X(5) and Related Models

11:30 – 12:15 *Eric Suraud*: Small Fermionic Systems, the Common Methods and Challenges

12:25 – 12:55 *Stoyan Mishev*: Description of the Low-Lying States of Odd-Even Nuclei within the Extended Random Phase Approximation

12:55 – 13:25 *Nikolay Minkov*: Collective and Single Particle Motion of Nuclei with Reflection Asymmetry

15:30 – 16:00 *Coffee*

Afternoon session

16:00 – 16:45 *Javier Rodriguez Vignote*: Ratio of the Electric to Magnetic Form Factors in Nuclei

16:55 – 17:40 *Elena Georgieva-Lawrie*: Possible Chirality in the Oblate Doubly-Odd ^{198}Tl Nucleus

17:50 – 18:35 *Simon Mullins*: Probing a Variety of Nuclear Phenomena with DIAMANT and AFRODITE

18:45 – 19:15 *R. Burcu Cakirli*: Comparison of Empirical Proton-Neutron Interactions with Growth Rates of Collectivity and Recent DFT Calculations

19:15 – 19:45 *Galina Krumova*: Charge Form Factor and Cluster Structure of ^{6}Li Nucleus

Thursday, June 28

EXCURSION

Friday, June 29

Morning session

09:30 – 10:15 *Makito Oi*: Anharmonic Wobbling Motion

10:15 – 10:35 *Coffee*

10:35 – 11:05 *Vladimir Garistov*: On E0 Transitions in Even-Even Nuclei

11:05 – 11:35 *Huben Ganev*: A New Look at Nuclear Supersymmetry

11:45 – 12:15 *Michail Ivanov*: sp(4,R)-Systematics of Atomic Nuclei. F-multiplets and Shell Structure

12:15 – 12:45 *Nikolay Kostov*: Computer Algebraic Methods in the Theory of Nuclei