

**Preliminary program of the XXVI Nuclear Physics Workshop
"Key problems of nuclear physics"
24-29 September 2019 Kazimierz Dolny, Poland**

Tuesday, 24th September			
16:00	18:00	REGISTRATION	
18:00	19:00	DINNER	
19:30	19:35	Artur Dobrowolski	Opening of the Workshop
19:35	20:05	Jie Meng	Symmetry energy at supra-saturation densities via GW170817
20:10	24:00	WELCOME RECEPTION	
Wednesday, 25th September morning		Microscopic methods I	
08:00	08:55	BREAKFAST	
09:00	09:40	Anatoli Afanasjev	Exploring nuclear exotica at the limits
09:40	10:10	Peter Ring	Relativistic Brueckner Theory: An Ab initio Approach for finite nuclei
10:10	10:30	Elena Litvinova	Nuclear many-body problem in the equation of motion framework
10:30	10:50	Gillis Carlsson	Mapping EDF's to an effective Hamiltonian operator for use in beyond mean-field calculations
10:50	11:10	Karim Bennaceur	Isovector instabilities with Gogny-type interactions
11:10	11:40	COFFEE BREAK	
11:40	12:00	Pengwei Zhao	Covariant density functional theory for nuclear chirality
12:00	12:20	Dao Duy Duc	Deformed mean-field in momentum space with general nucleon-nucleon interaction
12:20	12:40	Antonio Romero	Symmetry restoration in the mean-field description of proton-neutron pairing
12:40	13:00	Xavier Vinas	Study of three core-crust transition in neutron stars with finite-range interactions: the dynamical method
13:00	14:00	LUNCH	
Wednesday, 25th September afternoon		Microscopic methods II	
15:00	15:30	Jan Kvasil	Relation between isoscalar toroidal modes and pygmy dipole resonance
15:30	16:00	Kamila Sieja	Recent shell-model studies and their applications to radiative neutron capture
16:00	16:20	Natalia Cieplicka Oryńczak	Decay of the "stretched" M4 resonance in ^{13}C
16:20	16:40	Yannen Jaganathen	Gamow shell model description of super-pure resonant stretched states
16:40	17:10	COFFEE BREAK	
17:10	17:40	Marcella Grasso	A beyond-mean-field description for nuclear excitation spectra: the subtracted second RPA
17:40	18:00	Amelia Kosior	Properties and alpha-decay of superdeformed oblate nuclei in Skyrme HFB model
18:00	18:20	Han Rui	Reflection asymmetry of medium-mass nuclei
18:20	18:40	Alexander Gusev	Application of finite element method for solving the collective nuclear model
18:40	19:00	Algirdas Deveikis	Application of Bargmann-Moshinsky basis for construction of matrices of operators of collective nuclear model
19:00	20:00	DINNER	
20:10	21:00	POSTER SESSION	

Thursday, 26th September morning		Nuclear reactions	
08:00	08:55	BREAKFAST	
09:00	09:45	Antoni Szczurek	Single and double photon induced processes in ultraperipheral and semi-central nucleus-nucleus collisions
09:45	10:05	Wolfgang Schafer	Diffraction photoproduction of heavy-flavour vector mesons in ultraperipheral heavy-ion collisions
10:05	10:35	Eryk Piasecki	Dissipation and tunnelling in heavy-ion reactions around the Coulomb barrier
10:35	10:55	David Regnier	Mixing time dependent mean-field trajectories to describe the collision between two superfluid nuclei
10:55	11:20	COFFEE BREAK	
11:20	11:40	Sergue Vinitysky	Application of KANTBP program of the finite element method in the coupled-channels calculations for heavy-ion fusion reactions
11:40	12:00	Pavel Krassovitskiy	Effect of non-spherical scattering for nuclei of actinide series
12:00	12:20	Magda Cicerchia	Onset of pre-equilibrium: a comparative study of four reactions
12:20	12:40	Wang Jia	Calculation of the neutron induced reactions on ²³⁸ Pu
12:40	13:00	Pavel Kostryukov	T-invariance and nuclear reactions with participation of spin oriented particles
13:00	14:00	LUNCH	
16:00	16:30	COFFEE	
Thursday, 26th September afternoon		Nuclear structure & symmetries	
16:30	17:00	Costel Petrache	Exotic rotations in Ba and Ne nuclei
17:00	17:30	Nikolay Minkov	Evaluation of pear-shape effects in even-even nuclei
17:30	18:00	Lorenzo Fortunato	Investigating discrete symmetries in nuclei with polarized scattering and other reactions
18:00	18:20	Yuanyuan Wang	Multiple chiral doublet bands with octupole correlations in reflection-assymeric particle-rotor model
18:20	18:40	Simone Bottoni	Hybridization phenomena in neutron-rich nuclei
18:40	19:00	Anna Bezbakh	Mass parameters for dinuclear system
20:00	24:00	BARBECUE	
Friday, 27th September morning			
08:00	08:45	BREAKFAST	
09:00	14:00	EXCURSION	
14:00	15:00	LUNCH	
Friday, 27th September afternoon		Nuclear structure & odd-particle effects	
15:30	16:00	Cheuk-Yin Wong	On the nature of the Hoyle state
16:00	16:30	Genis Musulmanbekov	From quark correlations to the boundary of nuclear stability
16:30	16:50	Kosuke Nomura	Beyond-mean-field boson-fermion description of odd nuclei
16:50	17:10	Piotr Jachimowicz	Candidates for long-lived high-K isomers in superheavy nuclei
17:10	17:40	COFFEE BREAK	
17:40	18:00	Irene Dedes	K-isomers as stepping stones in studies of exotic nuclei
18:00	18:20	Pierre Becker	Investigation of nuclear structure of lowest ²²⁹ Th states
18:20	18:40	Magdalena Matejska-Minda	Lifetime measurements of short lived excited states and shape changes in ⁶⁹ As and ⁶⁶ Ge nuclei

18:40	19:00	Azam Rahmati Najed	Level density parameter of heaviest nuclei
19:00	20:00	DINNER	

Saturday, 28th September morning		Nuclear structure & fission I	
08:00	08:55	BREAKFAST	
09:00	09:40	Krzysztof Pomorski	Mass yields of fission fragment of Pt to Po isotopes - in memory of Professor W. J. Świątecki
09:40	10:10	Krystyna Siwek-Wilczyńska	The fusion by diffusion model revisited - in memory of Władek Świątecki
10:10	10:40	Sven Aberg	Fission described as metropolis process with microscopic level densities
10:40	11:10	Johann Bartel	Convergence study of the Fourier shape parametrization in the vicinity of the scission configuration
11:10	11:40	COFFEE BREAK	
11:40	12:10	Krzysztof Rusek	Neutron clusters in light, exotic nuclei - do we need nuclear theory at all?
12:10	12:40	Paweł Napiorkowski	Coulomb excitation: experiment and theory coexistence
12:40	13:00	Diego Ramos	Insight into the fission process from isotopic fission yields in surrogate reactions
13:00	14:00	LUNCH	
Saturday, 28th September afternoon		Nuclear structure & fission II	
15:00	15:40	Jerzy Dudek	High-rank symmetries
15:40	16:10	Christelle Schmitt	Sharing of protons and neutrons in low-energy fission: From the "old" to the "new" island of asymmetric fragmentation
16:10	16:40	Noel Dubray	From asymmetric to symmetric fission in the fermium isotopes within the time-dependent generator-coordinate-method formalism
16:40	17:10	Julian Srebrny	Quadrupole triaxiality softness. From simple phenomenological model to fully microscopic general Bohr Hamiltonian
17:10	17:40	COFFEE BREAK	
17:40	18:00	Leszek Próchniak	Octupole degrees of freedom-formal background and some phenomenology
18:00	18:20	Lile Liu	Study of fission dynamics with a 3D Langevin approach
18:20	18:40	Timur Shneidman	Decay properties of one-quasiparticle states in odd isotonic chains of heavy nuclei
20:00	24:00	CONFERENCE DINNER	

Sunday, 29th September			
08:30	09:30	BREAKFAST	
09:30	11:00	DEPARTURES	