

**Preliminary Program of the XXV Nuclear Physics Workshop
"Structure and Dynamics of Atomic Nuclei"
25-30 September 2018 Kazimierz Dolny, Poland**

Tuesday, 25th 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	Zhigang Ge	The key problems in nuclear data of actinide
20:10	24:00	WELCOME RECEPTION	

Wednesday, 26th September morning		Nuclear Structure	
08:00	08:55	BREAKFAST	
09:00	09:30	Peter Ring	Relativistic Brueckner-Hartree-Fock calculations in finite nuclear systems
09:30	10:00	Dany Davesne	Construction of nuclear effective interactions of new generation
10:00	10:20	Shihang Shen	Energy density functionals with ab initio input: neutron drops as a case study
10:20	10:40	Jan Pokorny	Description of medium-mass and heavy hypernuclei from realistic forces within a theoretical formalism starting from mean-field approximation
10:40	11:00	Alessandro Pastore	New statistical tools for nuclear structure calculations
11:00	11:30	COFFEE BREAK	
11:30	12:00	Jerzy Dudek	From the experimental evidence of tetrahedral and octahedral symmetries in even-even nuclei towards coupling with an odd nucleon
12:00	12:20	Irene Dedes	Tetrahedral and octahedral symmetry in the ground-state of Zr nuclei
12:20	12:40	Yannen Jaganathen	Quantified Gamow shell model interaction for psd-shell nuclei
12:40	13:00	Andrzej Baran	Levels crossings in nuclear spectra
13:00	14:00	LUNCH	

Wednesday, 26th September afternoon		Nuclear decays	
15:00	15:30	Yongjing Chen	Isoscaling study of binary fission yields
15:30	15:50	Liu Lile	The fission fragment mass distribution at low excitation energy
15:50	16:20	Tomohiro Oishi	Time dependent approach to proton emitting nuclei
16:20	16:40	Michał Kowal	Hindered alpha decays of heaviest high-K isomers
16:40	17:00	Martin Albertsson	Microscopic description of energy partition in fission
17:00	17:30	COFFEE BREAK	
17:30	17:50	Johann Bartel	Transport coefficients within the Fourier parametrization
17:50	18:10	Piotr Jachimowicz	Fission barrier heights in actinide and pre-actinide regions
18:10	18:30	Ivan Rogov	Evolution of dinuclear system in charge asymmetry coordinate
18:30	18:50	Amelia Kosior	Microscopic description of even-even superheavy nuclei with the Skyrme energy density functional
19:00	20:00	DINNER	
20:10	21:00	POSTER SESSION	

POSTERS	
Mojgan Abolghasem	Evolution of the position of single-particle levels in neutron-rich cerium and neodymium isotopes
Fatima Benrachi	Some spectroscopic properties of A=74 isobars beyond N=40
Nadjet Laouet	Shell evolution and spectroscopic study of even-even Z=38 isotopes
Bożena Pomorska	Rotational bands in super-heavy nuclei within LSD+YF model
Anna Zdeb	Dynamical description of fission in fermium isotopes
Marek Gózdź	Time in quantum systems
Katarzyna Mazurek	What should we do with spectator system in ultrarelativistic energy?

Thursday, 27th September morning		From QCD to low-energy nuclear physics I	
08:00	08:55	BREAKFAST	
09:00	09:45	Hermann Krebs	Introduction to chiral effective field theory
09:45	10:15	Jakub Wagner	Probing parton distributions of the nucleon at the future Electron Ion Collider
10:15	10:45	Tolga Altinoluk	Introduction to saturation effects in proton-nucleus collisions
10:45	11:15	COFFEE BREAK	
11:15	12:00	Krzysztof Golec-Biernat	How to find evidence of parton saturation in collider experiments
12:00	12:30	Hermann Krebs	Nuclear forces and currents in chiral EFT
12:30	13:00	Xavier Vinas	New Gogny interaction suitable for astrophysical applications
13:00	14:00	LUNCH	
Thursday, 27th September afternoon		From QCD to low-energy nuclear physics II	
15:00	15:45	Krzysztof Cichy	Parton distribution functions from Lattice QCD
15:45	16:05	Aleksandra Pędak	Hard photoproduction of a diphoton with a large invariant mass
16:05	16:35	COFFEE BREAK	
		Collective phenomena in nuclei	
16:35	17:05	Jan Kvasil	Toroidal mode in nuclei
17:05	17:35	Nikolay Minkov	The magnetic moment as a constraint in determining the ^{229m}Th isomer decay rates
17:35	17:55	Maria Kmiecik	The study of collective excitations at CCB IFJ PAN in Kraków
17:55	18:15	Katarzyna Mazurek	Phenomenological estimation of the Giant Dipole Resonances built on low-lying rotational bands
18:15	18:35	Irina Molodtsova	The nuclear spin scissors mode - theory and experiment
18:35	18:55	Andrzej Gózdź	Algebraic models with intrinsic symmetries
20:00	24:00	BARBECUE	

Friday, 28th September morning			
08:00	08:45	BREAKFAST	
09:00	14:00	EXCURSION	
14:00	15:00	LUNCH	
Friday, 28th September afternoon		Nuclear reactions	
15:30	16:00	Mariola Kłusek-Gawenda	Electromagnetic excitation in ultraperipheral heavy ion collisions
16:00	16:20	Tatiana Mikhailova	Heavy ion fragmentation reactions in a combined transport and statistical approach
16:20	16:40	Pavel Krassovitskiy	The calculation of neutron scattering on a non-spherical nucleus
16:40	17:00	Anton Repko	Nuclear structure by inelastic electron scattering
17:00	17:20	Stanislav Valenta	Photon strength functions of Dy isotopes from radiative capture of resonance neutrons
17:20	17:50	COFFEE BREAK	
		Modelling of nuclear phenomena	
17:50	18:20	Ning Wang	Nuclear models for masses and dynamics of neutron-rich nuclei
18:20	18:40	Serguei Vinitzky	Solution of multidimensional quantum mechanical problems using finite element method and parametric basis functions
18:40	19:00	Alexander Gusev	Metastable states of a clusters tunnelling through barriers and wells
19:00	20:00	DINNER	

Saturday, 29th September morning		Session in honour of Adam Sobiczewski I	
08:00	08:55	BREAKFAST	
09:00	09:10	Jerzy Dudek	Introduction: Professor Adam Sobiczewski
09:10	09:40	Krzysztof Pomorski	Structure and properties of super heavy nuclei by Adam Sobiczewski and his successors
09:40	10:20	Yuri Ts. Oganessian	A Theorist among the experimentalists
10:20	11:00	Krystyna Siwek-Wilczyńska	How to produce new elements and new heavy isotopes of known superheavy elements? To the memory of Adam Sobiczewski
11:00	11:30	COFFEE BREAK	
11:30	12:10	Krzysztof Rykaczewski	Recent experiments on super heavy nuclei with the actinide targets and new detection system from ORNL
12:10	12:40	Mikhail G. Itkis	Fission barriers of heaviest nuclei estimated from reaction studies
12:40	13:00	Krzysztof Rusek	Study of SHE in Poland; future of the experimental nuclear physics at HIL
13:00	14:00	LUNCH	
Saturday, 29th September afternoon		Session in honour of Adam Sobiczewski II	
15:00	15:40	Sigurd Hofmann	On Adam's life and love for superheavies
15:40	16:10	Dieter Ackermann	Approaching the island of stability - walking on firm grounds
16:10	16:30	Adam Maj	Gamma decay of the GDR in hot rotating superheavy nuclei - an unfinished quest
16:30	17:00	Janusz Skalski	Fission of odd nuclei and high-K isomers
17:00	17:30	COFFEE BREAK	
17:30	18:00	Bogdan Fornal	Searching for nuclear shape isomers
18:00	18:30	Nikolai Antonenko	Nonrotational states in isotonic chains of heavy nuclei
18:30	19:00	Zygmunt Patyk	Doubly magic nucleus ^{270}Hs
20:00	24:00	CONFERENCE DINNER	
Sunday, 30th September			
08:30	09:30	BREAKFAST	
09:30	11:00	DEPARTURES	