The 3rd Conference of the Polish Society on Relativity

Quantum and Alternative Approaches to Gravity

Monday (26th September)

$08^{30} - 09^{15}$	registration	
$09^{15} - 09^{30}$	opening	
$09^{30} - 10^{30}$	Jan Ambjørn	CDT and Minisuperspace
$10^{35} - 11^{00}$	coffe break	
$11^{00} - 11^{20}$	Jakub Gizbert-Studnicki	Phase Structure of Causal Dynamical Triangulations Model in 4D
$11^{25} - 11^{45}$	Andrzej Görlich	Causal Dynamical Triangulations with Toroidal Topology
$11^{50} - 12^{10}$	Daniel Nathan Coumbe	Some Recent Results in Euclidean Dynamical Triangulations
$12^{15} - 12^{35}$	Włodzimierz Piechocki	Addressing the Issue of Quantum Spikes
$12^{40} - 13^{40}$	lunch break	
$13^{40} - 14^{10}$	Jerzy Lukierski	Kappa-Deformations — Historical Remarks and Recent Developments
$14^{15} - 14^{35}$	Jerzy Kowalski-Glikman	Symmetries of Flat Quantum Spacetime
$14^{40} - 15^{00}$	Giacomo Rosati	Planck-Scale Modified Spacetime Symmetries and Propagation of IceCube GRB-neutrinos
$15^{05} - 15^{30}$	coffe break	
$15^{30} - 15^{50}$	Maciej Dunajski	Projective Surfaces and Einstein Metrics
$15^{55} - 16^{15}$	Piotr Chruściel	The Past Limit of Trautman-Bondi Mass

Tuesday (27th September)

$09^{15} - 10^{15}$	Kristina Giesel	Reduced Loop Quantization with 4 Klein-Gordon Scalar Fields
$10^{20} - 10^{45}$	coffe break	
$10^{45} - 11^{05}$	Ilkka Mäkinen	Time Evolution in Deparametrized Models of Loop Quantum Gravity
$11^{10} - 11^{30}$	Michał Artymowski	Inflation, Scalar-Tensor Theories and LQC
$11^{35} - 11^{55}$	Łukasz Nakonieczny	Classical Gravity and the Quantum One-Loop Effective Action – the Higgs Case
$12^{00} - 12^{20}$	Tomasz Trześniewski	Nonlinear Field Space Theory and Quantum Gravity
$12^{25} - 12^{45}$	Iwo Białynicki-Birula	From Uncertainty Relations to Fluctuations of Geometry in a Hot Universe
$12^{50} - 13^{40}$	lunch break	
$13^{40} - 14^{00}$	Katarzyna Senger	Gravity with Higher Order Lagrangians
$14^{05} - 14^{25}$	Pradyumn Kumar Sahoo	Kaluza-Klein Dark Energy Model in the Form of Wet Dark Fluid in $f(R,T)$ Gravity
$14^{30} - 14^{50}$	Leszek Sokołowski	Degrees of Freedom and Lagrangians Explicitly Depending on the Weyl tensor
$14^{55} - 16^{00}$	coffe break + poster sesion	
$16^{00} - 17^{00}$	PoToR general assembly	
$19^{00} - 22^{00}$	conference dinner	

Classical Gravity Session

Wednesday (28th September)

$09^{15} - 09^{35}$	Janusz Garecki	Canonical Superenergy and Angular Supermomentum Complexes in General Relativity and Some of their Applications
$09^{40} - 10^{00}$	Adam Chudecki	Congruences of Null Strings and their Relation with Weyl Tensor and Traceless Ricci Tensor
$10^{05} - 10^{25}$	Adam Szereszewski	Kundt's Metrics with Special Properties
$10^{30} - 10^{50}$	Istvan Racz	The Many Faces of the Constraints in General Relativity
$10^{55} - 11^{15}$	coffe break	
$11^{15} - 11^{35}$	Olga Sergijenko	Observational Constraints on Tensor Perturbations in Cosmological Models with Dynamical Dark Energy
$11^{40} - 12^{00}$	Mariusz Dąbrowski	Singularities and Cyclic Universes
$12^{05} - 12^{25}$	Anna Nakonieczna	Multidimensional Dynamics of the Brane-Dilaton Black Hole System
$12^{30} - 12^{50}$	Tomasz Miller	Causality for Probability Measures
$12^{55} - 13^{15}$	Michał Eckstein	Causality in Almost Commutative Space-Times
$13^{20} - 14^{10}$	lunch break	
$14^{10} - 14^{30}$	Tomasz Rembiasz	Magnetorotational Instability in Core-Collapse Supernovae
$14^{35} - 14^{55}$	Orest Hrycyna	A New Generic Cosmological Scenario without Singularity
$15^{00} - 15^{20}$	Zbigniew Haba	Diffusive DM/DE Interaction
$15^{25} - 15^{45}$	Roman Plyatsko	Antigravity Effects in General Relativity
$15^{50} - 16^{15}$	coffe break	
$16^{15} - 17^{15}$	Tilman Sauer	Einstein, Hilbert, and the Genesis of General Relativity
$17^{20} - 18^{20}$	Zofia Szczęsna	art exhibition

Thursday (29th September)

$09^{15} - 09^{35}$	Yuri Taistra	One-Way Solutions of Maxwell Equation in Kerr Metric
$09^{40} - 10^{00}$	Piotr Waluk	Degrees of Freedom of Weak Gravitational Field on a Spherically Symmetric Background
$10^{05} - 10^{25}$	Tomasz Smołka	Hamiltonian Dynamics in Asymptotically Kerr Spacetimes. Examination of Quasilocal Mass in Kerr Spacetime
$10^{30} - 11^{00}$	coffe break	
$11^{00} - 11^{20}$	Andrzej Borowiec	Palatini Cosmological Models à la Starobinsky
$11^{25} - 11^{45}$	David Hilditch	Dual Foliation Formulations of General Relativity
$11^{50} - 12^{10}$	Naqing Xie	Quasi-Local Mass Integrals and the Total Mass
$12^{15} - 12^{35}$	Mikołaj Korzyński	Optical Properties of the Black Hole Lattices
$12^{40} - 13^{00}$	Jan Ostrowski	Mass Function of Galaxy Clusters in Relativistic Inhomogeneous Cosmology
$13^{05} - 13^{55}$	lunch break	
$13^{55} - 14^{15}$	Andrzej Krasiński	Blueshifts in the Lemaitre-Tolman and Quasi-Spherical Szekeres Models.
$14^{20} - 14^{40}$	Boudewijn Roukema	First Steps Towards Scalar-Averaged Cosmological N-Body Simulations
$14^{45} - 15^{05}$	Mandar Patil	Can We Use Gravity to Produce Ultra-High Energy Cosmic Rays and Neutrinos?
$15^{10} - 15^{40}$	coffe break	
$15^{40} - 16^{00}$	Andrzej Królak	First Observations of Gravitational Waves
$16^{15} - 17^{15}$	Luciano Rezzolla	The Physics and Astrophysics of Merging Neutron-Star Binaries