

The Fifth Conference of Polish Society on Relativity

Mathematical structures in classical gravity, exact solutions of Einstein equations, physics of black holes, cosmological models, alternative models of gravity, detection of gravitational waves, dark matter models, nonrelativistic Newton-Cartan geometries.

Quantum gravity and tools of noncommutative geometry: quantum space-times, quantum phase spaces and quantum symmetries. Hopf-algebraic approach and its generalizations, quantum Riemannian geometry of quantum gravity.

Quantum gravity models: loop quantum gravity and spin foam models, string theory - AdS/CFT and metastrings, lattice models and dynamical triangulation, Hawking radiation and information paradox, conformal and quantum cosmology, quantum gravity phenomenology.

<https://events.ift.uni.wroc.pl/event/42/>

List of invited lecturers includes:

G. Amelino-Camelia (Naples)
P. Aschieri (Torino, Alessandria)
A. Ashtekar (Penn)
E.A. Bergshoeff (Groningen)
B. Brügmann (Jena)
P. Chruściel (Vienna)
L. Freidel (Waterloo)



List of invited lecturers includes:

J. Jurkiewicz (Kraków)
J. Lewandowski (Warsaw)
S. Majid (London)
L. Mason (Oxford)
D. Minic (Virginia)
S. Odintsov (Barcelona, Tomsk)
P. Townsend (Cambridge)

Scientific advisory committee:

Piotr Bizo (Jagiellonian University, Kraków)
Piotr Chruściel (University of Vienna)
Maciej Dunajski (Cambridge University)
Jerzy Jurkiewicz (Jagiellonian University, Kraków)
Jerzy Kijowski (Polish Academy of Sciences, Warsaw)
Jerzy Kowalski-Glikman (University of Wrocław)
Andrzej Królik (Polish Academy of Sciences, Warsaw)
Jerzy Lewandowski (University of Warsaw)
Jerzy Lukierski (University of Wrocław) Head
Edward Malec (Jagiellonian University, Kraków)
Marek Rogatko (Maria Curie-Skłodowska University)

Organizing Committee:

Arkadiusz Błaut (University of Wrocław)
Andrzej Borowiec (University of Wrocław) Head
Remigiusz Durka (University of Wrocław)
Andrzej Frydryszak (University of Wrocław)
Zbigniew Haba (University of Wrocław)
Jerzy Kowalski-Glikman (University of Wrocław)
Jerzy Lukierski (University of Wrocław)
Aleksander Kozak (University of Wrocław)
Tomasz Trzeciński (Jagiellonian Univ.) Secretary



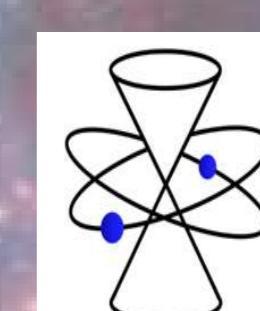
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COST Action MP 1405
Quantum Structure of Spacetime