

IX. International Workshop

LIE THEORY AND ITS APPLICATIONS IN PHYSICS

20 - 26 June 2011, Varna,

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Scope and Topics:

The meeting covers the whole field of Lie Theory in its widest sense together with its applications in many facets of physics. As interface between mathematics and physics the workshop serves as a meeting place for mathematicians and theoretical and mathematical physicists.

The preliminary programme includes the following topics:

LIE THEORY:

- Representation Theory
- Infinite-Dimensional Lie Groups and Algebras
- Algebraic Geometry
- Quantum Groups and Noncommutative Geometry
- Superalgebras and Supergroups
- Symmetries of Linear and Nonlinear PDE
- Special Functions

APPLICATIONS IN PHYSICS:

- Symmetries in String Theory
- Supergravity
- Conformal Field Theories
- Integrable Systems
- Relativistic and Nonrelativistic Holography
- Gauge Field Theories
- Noncommutative Quantum Theories
- Symmetries in Quantum Computing
- Symmetries in Dynamical Systems
- Symmetries in Condensed Matter and Statistical Physics

Special Session: The programme includes a special session honouring the 75-year Jubilee of Tchavdar Palev, Professor Emeritus at INRNE.

Sponsors:

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