

# X. International Workshop LIE THEORY AND ITS APPLICATIONS IN PHYSICS 17-23 June 2013, Varna, Bulgaria

# LT10

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
- Symmetries in Quantum Computing
- Noncommutative Quantum Theories
- Symmetries in Dynamical Systems
- Symmetries in Condensed Matter and Statistical Physics

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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 Abdus Salam  
International Centre for Theoretical Physics