XIV. International Workshop
LIE THEORY AND ITS
APPLICATIONS IN PHYSICS
20-26 June 2021, Sofia, Bulgaria

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.

LT14

The preliminary programme includes the following topics:

LIE THEORY:
- Representation Theory
- Infinite-Dimensional Lie Groups and Algebras
- Algebraic Geometry and Number Theory
- Cluster Algebras, Quiver Representations
- Superalgebras and Supergroups
- Quantum Groups and Noncommutative Geometry
- Symmetries of Linear and Nonlinear PDO
- Special Functions

APPLICATIONS IN PHYSICS:
- Symmetries in String Theory
- Supergravity, Quantum Gravity
- Conformal Field Theories
- Integrable Systems
- Relativistic and Nonrelativistic Holography
- Neural Networks, Deep Learning
- Gauge Field Theories
- Noncommutative Quantum Theories
- Symmetries in Dynamical Systems
- Symmetries in Condensed Matter and Statitical Physics

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