

# VIII. International Workshop Lie Theory and Its Applications in Physics

# LT-8

15–21 June 2009, Varna, 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

### Preliminary List of Speakers

Luigi Accardi (Rome U.2),  
Naruhiko Aizawa (Osaka),  
Bojko Bakalov (NC SU),  
David Berenstein\* (UC SB),  
Sofiane Bouarroudj (UAE U.),  
Andreas Boukas (Amer. Coll. Athens),  
Martin Cederwall (Chalmers Techn. U.),  
Ali Chamseddine\* (Amer. U. Beirut),  
Hubert De Guise (Lakehead U.),  
Irina Dolguntseva (Novosibirsk SU),  
Branko Dragovich (Belgrade),  
Irina Goryuchkina (Moscow),  
Emil Horozov (U. Sofia),  
Takeo Kojima (Tokyo),  
Andrew Linshaw (UC SD),  
Fyodor Malikov (USC),  
Tetsuji Miwa\* (Kyoto U.),  
Werner Nahm (Dublin IAS),  
Emil Nissimov (BAS, Sofia),  
Elena Poletaeva (UT PA),  
Seif Randjbar-Daemi (ICTP),  
Radoslav Rashkov (U. Sofia),  
Michel Rausch De Traubenberg (Strasbourg U.),  
Naoki Sasakura (Yukawa ITP),  
Nils Scheithauer (Darmstadt U.),  
Volker Schomerus (DESY),  
Fumihiko Sugino (Okayama),  
Ivan Todorov (BAS, Sofia),  
Joris Van der Jeugt (U. Gent),  
Stanislaw Woronowicz\* (Warsaw U.),  
Milen Yakimov (Louisiana SU),  
Ruibin Zhang (U. Sydney)

### LIE THEORY:

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

### APPLICATIONS IN PHYSICS:

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

### International Organizing Committee

H.-D. Doebner (Clausthal) and  
V.K. Dobrev (Sofia) in collaboration with  
G. Rudolph (Leipzig)

### Local Organizing Committee (INRNE)

V.K. Dobrev (Chairman), V.I. Doseva, L.S. Georgiev,  
P. Kiratsov, P.B. Konstantinov, N.M. Nikolov, P. Petkov,  
T.V. Popov, E.P. Puncheva, T. Stefanova, M.N. Stoilov,  
S.T. Stoimenov

