

Mathematical Physics in Bahia

Algebraic analysis, quantization and representations

Salvador, Brazil

5-10 July, 2012

Auditório of the Instituto de Matemática, Universidade Federal da Bahia

PROGRAM

Thursday, July 5

9:00 - 9:45 **Registration**

9:45 - 10:00 **Opening**

10:00 - 11:00 **P. Schapira** Hochschild homology and microlocal Euler classes

Coffee break

11:30 - 12:30 **G. Landi** Gauge fields and q -vortices over the quantum sphere

Lunch

14:00 - 15:00 **R. Heluani** Moonshine and string theory on $K3$

15:00 - 16:00 **D. Vassilevich** Spectral action and quantum field theory

Friday, July 6

9:00 - 10:00 **E. Gasparim** BPS state counting on singular varieties

10:00 - 11:00 **G. Ginot** Centralizers of maps and deformations

Coffee break

11:30 - 12:30 **E. Ragoucy** Bethe ansatz for open spin chains with non diagonal boundaries

Lunch

14:00 - 15:00 **V. Futorny** Representations of Lie algebra of vector fields on a torus

15:00 - 16:00 **A. Voronov** Quantum master equation and deformation theory

Coffee break

16:30 - 17:30 **Colloquium by W. Schmid** Harmonic analysis on reductive Lie groups

— 19h30: Departure from Marazul Hotel for the Conference Dinner —

Saturday, July 7

9:00 - 10:00 **N. Berkovits** Pure spinors, supersymmetry and string theory

10:00 - 11:00 **A. Getmanenko** Microlocal properties of sheaves and complex WKB method I

Coffee break

11:30 - 12:30 **W. Schmid** Hodge theory and the unitary dual of reductive Lie groups

Lunch

14:00 - 17:00 *Poster Session*

Sunday, July 8

Excursion Praia do Forte

Monday, July 9

9:00 - 10:00 **F.M. Forger** Multiphase spaces and multisymplectic geometry

10:00 - 11:00 **A. Getmanenko** Microlocal properties of sheaves and complex WKB method II

Coffee break

11:30 - 12:30 **E. Hoefel** Open-closed homotopy algebras through Koszul operad theory

Lunch

14:00 - 15:00 **P. Grossman** Representation theory of exotic fusion categories

15:00 - 16:00 **F. Toppan** Critical scaling dimensions for $N = 4, 7, 8$ superconformal algebras

Tuesday, July 10

9:00 - 10:00 **S. Guillermou** Microsupport of sheaves and symplectic geometry

10:00 - 11:00 **M. Jardim** Nested Hilbert schemes

Coffee break

11:30 - 12:30 **R. Nest** On quantization of Hamiltonian actions of Poisson Lie groups

Lunch