

Representation Theory XI
IUC, Dubrovnik, Croatia, June 14 – 21, 2009

Schedule

Monday, June 15

9:00 – 9:45 **M. Duflo:** On Poincaré–Birkhoff–Witt theorem
9:55 – 10:40 **T. Kobayashi:** Conformal geometry and Schrödinger model
of minimal representations

Chair: H. Kraljević

10:40 – 11:00 Coffee break
11:00 – 11:45 **A. Semikhatov:** News from the Kazhdan–Lusztig duality. What
Hopf algebras know about LCFT I
11:55 – 12:40 **P. Bantay:** Vector-valued modular forms and generalized
Moonshine

Chair: T. Gannon

16:00 – 16:45 **S. Mehdi:** Representation theoretic harmonic spinors
16:45 – 17:00 Coffee break
17:00 – 17:45 **D. Ciubotaru:** Unitary functorial correspondences for
quasisplit p -adic groups
17:55 – 18:40 **B. Širola:** Some distinguished Lie subalgebras and subgroups and
the role of Kostant's TDS theory

Chair: M. Duflo

Tuesday, June 16

9:00 – 9:45 **K. Barron:** The moduli space of $N=2$ superconformal worldsheets
arising in $N=2$ superconformal field theory
9:55 – 10:40 **D. Adamović:** On representation theory of affine Lie algebra $A_1^{(1)}$ at
the critical level

Chair: M. Primc

10:40 – 11:00 Coffee break
11:00 – 11:45 **D. Gourevitch:** Gelfand pairs and symmetric pairs
11:55 – 12:40 **R. Bezrukavnikov:** Categorical Hecke algebra actions and applications

Chair: K. Vilonen

16:00 – 16:45 **M. Primc:** Combinatorial bases of representations of affine
Lie algebras $A_1^{(1)}$ and $B_2^{(1)}$
16:45 – 17:00 Coffee break
17:00 – 17:45 **O. Perše:** Conformal embeddings of vertex operator algebras
associated to orthogonal affine Lie algebras

Chair: A. Semikhatov

Wednesday, June 17

- 9:00 – 9:45 **A. Pantano:** Unitary genuine principal series of the metaplectic group
9:55 – 10:40 **K. Vilonen:** TBA

Chair: T. Kobayashi

- 10:40 – 11:00 Coffee break
11:00 – 11:45 **I. Mirković:** Lusztig's conjecture on modular representations of semisimple Lie algebras I
11:55 – 12:40 **R. Bezrukavnikov:** Categorical affine Hecke algebra actions and applications

Chair: S. Salamanca–Riba

Thursday, June 18

- 9:00 – 9:45 **D. Barbasch:** Stable combinations of characters of unipotent representations I
9:55 – 10:40 **D. Gourevitch:** Multiplicity one theorems – a uniform proof

Chair: A. Pantano

- 10:40 – 11:00 Coffee break
11:00 – 11:45 **G. Muić:** Existence and construction of cusp forms
11:55 – 12:40 **T. Gannon:** Vector-valued modular forms

Chair: A. Meurman

- 16:00 – 16:45 **S. Salamanca–Riba:** On the omega regular unitary representations of the metaplectic group
16:45 – 17:00 Coffee break
17:00 – 17:45 **T. Kobayashi:** Generalized Bernstein–Reznikov integrals

Chair: I. Mirković

Friday, June 19

- 9:00 – 9:45 **A. Semikhatov:** News from the Kazhdan–Lusztig duality. What Hopf algebras know about LCFT II
9:55 – 10:40 **A. Milas** Logarithmic representations of vertex (super)algebras

Chair: D. Adamović

10:40 – 11:00 Coffee break

- 11:00 – 11:45 **D. Ciubotaru:** Duality between representations of classical real groups and affine graded Hecke algebras
11:55 – 12:40 **P. Pandžić:** Dirac cohomology of some unitary highest weight modules

Chair: D. Gourevitch

- 16:00 – 16:45 **K. Barron:** The algebra of correlation functions arising from genus zero two–dimensional holomorphic $N=2$ superconformal field theory

16:45 – 17:00 Coffee break

- 17:00 – 17:45 **T. Gannon:** Zhu's algebra, the C_2 algebra, and twisted modules

Chair: A. Milas

Saturday, June 20

- 9:00 – 9:45 **T. Yoshino:** On Lipsman's conjecture
9:55 – 10:40 **S. Mehdi:** Plancherel formula for differential forms on symmetric spaces and applications

Chair: D. Barbasch

10:40 – 11:00 Coffee break

- 11:00 – 11:45 **I. Mirković:** Lusztig's conjecture on modular representations of semisimple Lie algebras II

Chair: K. Barron