
REPRESENTATION THEORY

XVIII

Inter-University Centre, Dubrovnik, Croatia
Jun 18th – 24th, 2023



Scientific Center of Excellence for Quantum and Complex Systems, and Representations of Lie Algebras - QuantiXLie



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SCHEDULE: LIE GROUPS SECTION

Representation Theory XVIII
IUC, Dubrovnik, Croatia, June 18 – 24, 2023
Schedule: Lie Groups Section

Monday, June 19

9:00 – 9:50 **David Vogan:** Generalizing endoscopy
10:00 – 10:50 **Ivan Losev:** Quantizations and Harish-Chandra modules

Chair: Hrvoje Kraljević

10:50 – 11:10 **Coffee break**
11:10 – 12:00 **Dmytro Matvieievskiy:** Extended duality and unipotent ideals
12:10 – 13:00 **Lucas Mason-Brown:** The Unitary Dual of a Nilpotent Cover

Chair: Kyo Nishiyama

Free afternoon

Tuesday, June 20

9:00 – 9:50 **Kei Yuen Chan:** On the Lefschetz principle for $GL(n, \mathbb{C})$ and $GL(n, \mathbb{Q}_p)$
10:00 – 10:50 **Karmen Grizelj:** Transgression in the relative Weil algebra

Chair: Ivan Penkov

10:50 – 11:10 **Coffee break**
11:10 – 12:00 **Andrey Krutov:** Schubert calculus for irreducible quantum flag manifolds
12:10 – 13:00 **Gordan Savin:** Exceptional theta correspondences for real groups

Chair: Volodymyr Mazorchuk

16:00 – 16:50 **Jeffrey Adams:** There is no such thing as an Arthur Packet
17:00 – 17:50 **Kyo Nishiyama:** Quiver representations and double flag varieties

Chair: Qixian Zhao

Wednesday, June 21

9:00 – 9:50 **Nicolas Billarey:** On the modularity of reducible Galois representations
10:00 – 10:50 **Petar Orlić:** Modular curves $X_0(N)$ with infinitely many quartic points

Chair: Michael Stoll

10:50 – 11:10 **Coffee break**

11:10 – 11:40 **Goran Muić:** On Higher Order Weierstrass Points on $X_0(N)$ and beyond
11:50 – 12:20 **Igor Ciganović:** The Zelevinsky classification of unramified representations of the metaplectic group

Chair: Ariel Pacetti

Free afternoon

Thursday, June 22

9:00 – 9:50 **Volodymyr Mazorchuk:** Recent progress on Kostant's problem
10:00 – 10:50 **Ivan Penkov:** Ind-varieties of generalized flags: a brief survey

Chair: David Vogan

10:50 – 11:10 **Coffee break**
11:10 – 12:00 **Qixian Zhao:** Non-integral Kazhdan-Lusztig algorithm and an application to Whittaker modules
12:10 – 13:00 **Ana Prlić:** The PRV product of irreducible unitary highest weight (\mathfrak{g}, K) -modules

Chair: Andrey Krutov

16:00 – 16:50 **Peter Trapa:** Matching real and p -adic Kazhdan-Lusztig polynomials
17:00 – 17:50 **Dubravka Ban:** Jacquet Tensors

Chair: Jeffrey Adams

Friday, June 23

9:00 – 9:50 **Kieran Calvert:** Generalisations of Dirac operators for graded affine Hecke algebras
10:00 – 10:50 **Spyros Afentoulidis-Almpanis:** Noncubic Dirac operators for finite-dimensional modules

Chair: Daniel Wong

10:50 – 11:10 **Coffee break**
11:10 – 12:00 **Wan-Yu Tsai:** Some genuine small representations of a covering group and their wavefront sets
12:10 – 13:00 **Daniel Wong:** On the unitary dual of complex spin groups

Chair: Pavle Pandžić

Free afternoon
