

Representations and Characters:
Revisiting the Works of Harish-Chandra and André Weil
 -A satellite conference of the virtual ICM 2022
 (01 Jul 2022–15 Jul 2022)

Speaker & Affiliation	Talk Title
Jeffrey Adler American University, USA	Finite-group actions on reductive groups and buildings II: the unauthorized sequel (Video)
Spyridon Afentoulidis-Alampanis Charles University of Prague, Czech Republic	Dirac operators for the standard BGG category \mathcal{O} (Video)
Anne-Marie Aubert IMJ-PRG, France	A non-abelian Fourier transform for tempered unipotent representations of p -adic groups (Video)
Petar Bakic University of Utah, USA	Theta correspondence and Arthur packets: the Adams conjecture (Video)
Dan Barbasch Cornell University, USA	The orbit method and normality of closures of nilpotent orbits (Video)
Raphael Beuzart-Plessis Aix-Marseille University, France	<i>ICM Lecture</i> Relative trace formulae and the Gan-Gross-Prasad conjectures (Video)
Cheng Chen University of Minnesota, USA	On the local Gross-Prasad conjecture (Video)
Jonathan Cohen University of North Texas, USA	Siegel Fixed Vectors in Depth Zero Supercuspidal Representations of $\mathrm{GSp}(4)$ (Video)
Evgeny Feigin HSE University, Russia	<i>ICM Lecture</i> PBW degenerations, quiver Grassmannians, and toric varieties (Video)
Jessica Fintzen Universität Bonn, Germany	Representations of p -adic groups – with a twist
Jan Frahm Aarhus University, Denmark	Conformally invariant differential operators on Heisenberg groups and minimal representations (Video)

Speaker & Affiliation	Talk Title
Wee Teck Gan National University of Singapore, Singapore	<i>Survey Lecture:</i> Howe to transfer Harish-Chandra characters via Weil representations (Part 1) (Part 2) (Part 3)
Jorge Enrique Cely Garcia Vietnam Institute for Advanced Study in Mathematics, Vietnam	The fundamental lemma for spherical Hecke algebras and motivic integration (Video)
Maxim Gurevich Technion - Israel Institute of Technology, Israel	In between finite and p-adic groups in type A (Video)
Shamgar Gurevich University of Wisconsin–Madison, USA	Harmonic analysis on GL_n over finite fields
Hongyu He Louisiana State University, USA	Projection of elliptic orbits and branching laws (Video)
Roger Howe Texas U&M University, USA	<i>Distinguished Visitor Lecture Series</i>
	The Theta Correspondence - Origins, Results, and Ramifications (Part 1) (Part 2)
Atsushi Ichino Kyoto University, Japan	<i>ICM Lecture</i> Theta lifting and Langlands functoriality (Video)
Edmund Karasiewicz University of Utah, USA	The Iwahori-fixed part of the Gelfand-Graev representation of a covering group (Video)
Tasho Kaletha University of Michigan, USA	<i>ICM Lecture</i> Representations of reductive groups over local fields (Video)
Toshiyuki Kobayashi The University of Tokyo, Japan	<i>Distinguished Visitor Lecture Series</i>
	Proper actions and representation theory (Part 1) (Part 2) (Part 3) Harish-Chandra's admissibility theorem and beyond (Video)
Wen-Wei Li BICMR, Peking University, China	Localization and higher branching laws for Harish-Chandra modules (Video)
Hengfei Lu University of Vienna, Austria	The modular distinction problems (Video)

Speaker & Affiliation	Talk Title
Jia-Jun Ma Xiamen University, China	Generic Hecke algebra and theta correspondence over finite fields (Video)
Allan Merino University of Ottawa, Canada	Dual pairs in an orhosymplectic Lie supergroup and double commutant theorem for complex pairs (Video)
Monica Nevins University of Ottawa, Canada	On the local character expansion (Video)
Kyo Nishiyama Aoyama Gakuin University, Japan	Hecke algebra actions on a double flag variety (Video)
Masao Oi Kyoto University, Japan	Characterization of supercuspidal representations via Harish-Chandra characters (Video)
Michael Pevzner Laboratoire de Mathématiques de Reims (LMR) - CNRS UMR 9008, France	From symmetry breaking toward holography in representation theory (Video)
Manami Roy Fordham University, USA	Dimensions for the spaces of Siegel cusp forms of degree 2 and level 4 (Video)
Yiannis Sakellaridis Johns Hopkins University, USA	<i>ICM Lecture</i> Spherical varieties, functoriality, and quantization (Video)
Hadi Salmasian University of Ottawa, Canada	The Capelli eigenvalue problem for Lie algebras and beyond (Video)
Gordan Savin University of Utah, USA	Bernstein projectors for unrefined types (Video)
Sug Woo Shin The University of California, Berkeley, USA	<i>ICM Lecture</i> Points of Shimura varieties modulo primes (Video)
Loren Spice Texas Christian University, USA	Explicit character formulæ for tame supercuspidals via asymptotic expansions (Video)
Shaun Stevens University of East Anglia, UK	Endo-parameters for classical groups and splittings (Video)
Binyong Sun Chinese Academy of Sciences, China	<i>ICM Lecture</i> Theta correspondence and the orbit method (Video)

Speaker & Affiliation	Talk Title
Peter Trapa University of Utah, USA	Relations between Kazhdan-Lusztig polynomials for real and p-adic classical groups (Video)
Cheng-Chiang Tsai Academia Sinica, Taiwan	Uniform bounds of orbital integrals and affine Springer fibers (Video)
Marie France Vigneras IMJ-PRG, France	ICM Emmy Noether Lecture Representations of p-adic groups (Video)
Weiqiang Wang University of Virginia, USA	<i>ICM Lecture</i> What is an i-quantum group, and what is it good for? (Video)
Jiu Kang Yu The Chinese University of Hong Kong, China	On nilpotent orbits in good characteristic (Video)
Chen-Bo Zhu National University of Singapore, Singapore	<i>ICM Lecture</i> Theta correspondence and the orbit method (Video)