

Workshop on
“Minimal Representations and Theta Correspondence”

April 11 - 15, 2022

organized by

Wee Teck Gan (U of Singapore), Marcela Hanzer (U Zagreb), Alberto Minguez (U Vienna),
Goran Muic (U Zagreb), Martin Weissman (UC Santa Cruz)

• **Monday, April 11th, 2022**

09:00 – 09:20 **Registration**

09:20 – 09:30 **Welcome**

09:30 – 10:15 **Dipendra Prasad (IIT Bombay)**

Homological methods in theta correspondence

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **Anne-Marie Aubert (CNRS, Paris)**

Theta correspondence and wave front set

11:30 – 11:45 **Coffee Break**

11:45 – 12:30 **Justin Trias (Imperial College, London)**

Towards a theta correspondence in families for type II dual pairs

12:30 – 14:45 **Lunch Break**

14:45 – 15:30 **Jeffrey Adams (U of Maryland) - online**

Equivalent definitions of Arthur packets for real classical groups

15:30 – 16:00 **Coffee Break**

16:00 – 16:45 **Baiying Liu (Purdue U) - online**

Recent progress on certain problems related to local Arthur packets of classical groups

• **Tuesday, April 12th, 2022**

09:30 – 10:15 **Toshi Kobayashi (U Tokyo) - online**

Schrödinger model of minimal representations and branching problems

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **Jing-Song Huang (HKUST) - online**

Model orbits and unipotent representations

11:45 – 12:30 **Wan-Yu Tsai (CYCU) - online**

Some genuine small representations of a covering group and their wavefront sets

12:30 – 14:45 **Lunch Break**

14:45 – 15:30 **Sonja Zunar (U Zagreb)**

On topological aspects of smooth automorphic forms

15:30 – 16:00 **Coffee Break**

16:00 – 16:45 **Jan Frahm (U Aarhus)**

Conformally invariant differential operators on Heisenberg groups and minimal representations

• **Wednesday, April 13th, 2022**

09:30 – 10:15 **Petar Bakic (U of Utah, Saltlake City)**

Theta correspondence and Arthur packets: the Adams conjecture

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **Melissa Emory (U Toronto)**

On Restrictions of Representations

11:30 – 11:45 **Coffee Break**

11:45 – 12:30 **Emile Okada (U Oxford)**

TBA

12:30 – 14:30 **Lunch Break**

14:30 – 15:15 **David Soudry (Tel Aviv U) - online**

New types of Siegel-Weil formulas

15:15 – 15:30 **Coffee Break**

15:30 – 16:15 **Dihua Jiang (U of Minnesota) - online**

Wavefront Sets, Local Descents and Spectrum

18:30 – 22:00 **Conference Dinner**

• **Thursday, April 14th, 2022**

09:30 – 10:15 **Kei Yuen Chan (Fudan) - online**

Quotient branching law for p -adic general linear groups and affine Hecke algebra of type A

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **Jiajun Ma (Xiamen U) - online**

Generic Hecke algebra and theta correspondence over finite fields

11:30 – 11:45 **Coffee Break**

11:45 – 12:30 **Hung Yean Loke (U of Singapore) - online**

A Cauchy - Harish-Chandra integral for a dual pair over a p -adic field

12:30 – 14:45 **Lunch Break**

14:45 – 15:30 **Rahul Dalal (Johns Hopkins U, Baltimore)**

Counting Level-1, Quaternionic Automorphic Representations on G_2

15:30 – 16:00 **Coffee Break**

16:00 – 16:45 **Aaron Pollack (UC San Diego)**

Modular forms of half-integral weight on G_2

- **Friday, April 15th, 2022**

09:30 – 10:15 **Nadya Gurevich (Ben-Gurion)**

Gelfand-Graev representation for covering groups and applications.

10:15 – 10:45 **Coffee Break**

10:45 – 11:30 **Marko Tadic (U Zagreb)**

An approach to the unitarizability problem in the case of classical p -adic groups

11:30 – 11:45 **Coffee Break**

11:45 – 12:30 **Pavle Pandzic (U Zagreb)**

Dirac index and associated cycles of Harish-Chandra modules

The event takes place at the Erwin Schrödinger Institute - Boltzmann lecture hall! Online participation is possible via zoom. Zoom coordinates are available on request (secr@esi.ac.at) and after registration until April 1, 2022.