

Seminar-Research Days

« *p*-adic *L*-Functions of Classical groups and their applications »

From 4th to 8th December 2023, Fourier Institute. University Grenoble Alpes.

Rooms 4, 29, Amphitheatre Chabauty.

- Monday 4th December to Wednesday 6th December (Room 4 and Room 29): research work in a small committee with Siegfried Böcherer, Yubo Jin, Athanasios Bouganis, Andrzej Dabrowski and Alexei Pantchichkine.

Zoom for Tuesday 5th December : <https://univ-grenoble-alpes-fr.zoom.us/j/97828059413?pwd=OURad1JVRnJLaVo5eDlzVWtXSkm2dz09>

Zoom for Wednesday 6th December : <https://univ-grenoble-alpes-fr.zoom.us/j/97192225396?pwd=blJaRW5oWVRQTmhFNmRrNmc3dFp5Zz09>

- Thursday 7th December (**Room 4**) : seminar open to local and other participants also by Zoom.

* Morning session : Number Theory Seminar

10:00 Introductory words by Louis Funar, Director of the Fourier Institute.

10:30 Lecture by Siegfried Böcherer

11:15 Lecture by Yubo Jin

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09>

[pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09](https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09)

12:30 Lunch at the restaurant “L'Oiseau Blanc”.

* Afternoon (**Room 4**) :

14:00 : continuation of the Number Theory Seminar-Day with local and external participants, including by Zoom.

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09>

[pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09](https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09)

15:45 General group photo.

16:00 Special Institute Tea at the cafeteria for the event « *L* *p*-adic functions of Classical groups and their applications ».

16:30 Seminar-Days (**Amphitheatre Chabauty**) :

Athanasios Bouganis

“On a Rankin-Selberg integral of three Hermitian cusp forms related to ideas of Andrianov and the use of parabolic Hecke algebras but in the unitary group setting (after Gritsenko) and inspired by a work of Heim.”

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09>

[pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09](https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09)

17:30 (**Room 4**) : interventions of local and external participants, including by Zoom.

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09>

[pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09](https://univ-grenoble-alpes-fr.zoom.us/j/98585546977?pwd=MCtUWHpMUDkwZGI3NlgwTmJDZ0lnQT09)

20:00 Dinner at Bouillon Les Archers in Grenoble.

- Friday 8 December :

* Morning (**Room 29**): continuation of the Number Theory Seminar

10:00 Tobias Keller

“Denominators of special values of (twisted) triple product L-functions attached to elliptic modular forms, relating these denominators with congruence primes for one of the three modular forms in a similar fashion to results of Katsurada and Böcherer for the standard L-function of a Siegel modular form.”

Tea / coffee/refteshments

Interventions of local and external participants.

* Afternoon (**Room 4**):

13:00 Andrzej Dabrowski/Anh Tuan DO

“Admissible case via Rankin-Selberg and doubling methods.”

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/91959706711?pwd=Ly9sQjR3NjFFWmZyZyYjwOFI2MExrZz09>

14:00 Conclusion by Alexei Panchichkine (**Room 4**)

“Utilisation of the Newton / Hodge polygones for the p-adic L-functions. Answer to a question by Robert Langlands (the « magic square » of Langlands, see link below p.5) and the Panchishkin condition).”

“...(Ralph) Greenberg imposes a condition that he calls the Panchishkin condition, ...of an ordinary form or Galois representation seems to be an expression of it “. (REVIEW OF HARUZO HIDA'S p-ADIC AUTOMORPHIC FORMS ON SHIMURA VARIETIES by ROBERT P. LANGLANDS, p .16 <https://publications.ias.edu/rpl/hida-book-review> “

Zoom : <https://univ-grenoble-alpes-fr.zoom.us/j/91959706711?pwd=Ly9sQjR3NjFFWmZyZyYjwOFI2MExrZz09>

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