

Conference on
Number Theory and Spectral Theory
Friday December 3 — Saturday December 4 , 1999
Auditorium G1, Department of Mathematical Sciences
University of Aarhus

This conference deals with a broad spectrum of number theory, including transcendental numbers, modular forms, spectral theory and statistical analysis of the Riemann zeros. The conference is organized by Erik Balslev and Alexei Venkov, Aarhus.

The program consists of the following 8 one-hour lectures:

FRIDAY

9.30-10.30 Ahmed Sebbar (Bordeaux): *Capacity, Jacobi forms and geodesics of the Bergman metric*

Coffee

10.45-11.45 Martin Huxley (Cardiff): *Integer points in plane regions and exponential sums*

12.00-13.30 Lunch (free for registered participants)

13.30-14.30 Alexei Venkov (Aarhus): *Exceptional Hecke operators for the groups $\Gamma_0(N)$ with primitive character*

Coffee

15.00-16.00 Gisbert Wüstholz (Zürich): *Hypergeometric functions, special points on Shimura varieties and transcendence*

SATURDAY

9.30-10.30 Uffe Haagerup (Odense): *Random matrices and the distribution of zeros of the Riemann zeta function — a survey of results of Odlyzko*

Coffee

10.45-11.45 Eric Opdam (Amsterdam): *Spectral decomposition of Iwahori-Hecke algebras*

12.00-14.00 Lunch (free for registered participants)

14.00-15.00 Dieter Mayer (Clausthal): *Transfer operators and period functions for subgroups of the modular group*

Coffee

15.30-16.30 Andreas Knauf (Erlangen): *Number theory and statistical mechanics*

Please contact the organizers for further information:

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