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School on Automorphic Forms on GL(n)
(31 July - 18 August 2000)

Supported by the European Commission, Research DG, Human Potential Programme, High-Level Scientific Conferences HPCF-CT-1999-00140

FINAL PROGRAMME

VENUE: MAIN LECTURE HALL, MAIN BUILDING

Week 1 (31 July - 4 August)

Monday, 31 July

8:30 - 12:00	Registration and administrative formalities
14:00	Opening
14:15 - 15:15	M.S. Raghunathan (T.I.F.R., Mumbai, India) *$L^2(G/\Gamma)$ and Automorphic forms (I)*
15:45 - 16:45	T.N. Venkataramana (T.I.F.R., Mumbai, India) *Classical Modular Forms (I)*

Tuesday, 1 August

9:30 - 10:30	M.S. Raghunathan (T.I.F.R., Mumbai, India) *$L^2(G/\Gamma)$ and Automorphic forms (II)*
11:00 - 12:00	T.N. Venkataramana (T.I.F.R., Mumbai, India) *Classical Modular Forms (II)*
14:00 - 15:00	Discussion hour
15:30 - 16:30	M.S. Raghunathan (T.I.F.R., Mumbai, India) *Review of Abelian Class Field Theory (I)*
18:30	*Reception (Main Building Terrace)*

Wednesday, 2 August

9:30 - 10:30 M.S. Raghunathan (T.I.F.R., Mumbai, India)
$L^2(G/\Gamma)$ and Automorphic forms (III)

11:00 - 12:00 T.N. Venkataramana (T.I.F.R., Mumbai, India)
Classical Modular Forms (III)

14:00 - 15:00 D. Prasad (Mehta Research Institute, Allahabad, India)
Review of representation theory of GL(n) over a p-adic field (I)

15:30 - 16:30 M.S. Raghunathan (T.I.F.R., Mumbai, India)
Review of Abelian Class Field Theory (II)

Thursday, 3 August

9:30 - 10:30 M.S. Raghunathan (T.I.F.R., Mumbai, India)
$L^2(G/\Gamma)$ and Automorphic forms (IV)

11:00 - 12:00 T.N. Venkataramana (T.I.F.R., Mumbai, India)
Classical Modular Forms (IV)

14:00 - 15:00 D. Prasad (Mehta Research Institute, Allahabad, India)
Review of representation theory of GL(n) over a p-adic field (II)

15:30 - 16:30 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
Classical Modular Forms and L-functions

Friday, 4 August

9:30 - 10:30 D. Prasad (Mehta Research Institute, Allahabad, India)
Review of representation theory of GL(n) over a p-adic field (III)

11:00 - 12:00 T.N. Venkataramana (T.I.F.R., Mumbai, India)
Review of Abelian Class Field Theory (III)

15:00 - 16:00 G. Harder (Universität Bonn/Max-Planck-Inst. für Math., Germany)
An overview of Langlands programme (I)

16:30 - 17:30 G. Harder (Universität Bonn/Max-Planck-Inst. für Math., Germany)
An overview of Langlands programme (II)

Week 2 (7 - 11 August)

Monday, 7 August

9:30 - 10:30 D. Prasad (Mehta Research Institute, Allahabad, India)
Review of representation theory of GL(n) over a p-adic field (IV)

11:00 - 12:00 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
L-functions for GL(n) (I)

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
The local Langlands correspondence for GL(n) over p-adic fields (I)

15:30 - 16:30 M.S. Raghunathan (T.I.F.R., Mumbai, India)
$L^2(G/\Gamma)$ and Automorphic forms (V)

Tuesday, 8 August

9:30 - 10:30 D. Prasad (Mehta Research Institute, Allahabad, India)
Base Change Theory (I)

11:00 - 12:00 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
L-functions for GL(n) (II)

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
The local Langlands correspondence for GL(n) over p-adic fields (II)

Wednesday, 9 August

9:30 - 10:30 D. Prasad (Mehta Research Institute, Allahabad, India)
Base Change Theory (II)

11:00 - 12:00 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
L-functions for GL(n) (III)

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
The local Langlands correspondence for GL(n) over p-adic fields (III)

Wednesday, 9 August (continued)

Participants talks **(in Room C, Terrace Level)**

15:30 - 16:00 S. Salamanca (New Mexico State University, Las Cruces, U.S.A.)
On strictly unitarily small representations for real Lie goups.

16:00 - 16:30 H. Verrill (University of Copenhagen, Denmark)
Modular mod l Galois representations with exceptional image.

Thursday, 10 August

9:30 - 10:30 G. Harder (Universität Bonn, Germany)
Trace Formula and its applications (I)

11:00 - 12:00 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
L-functions for GL(n) (IV)

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
The local Langlands correspondence for GL(n) over p-adic fields (IV)

Participants talks **(in Room C, Terrace Level)**

15:30 - 16:00 S. Devlin (University of Maryland, College Park, U.S.A.)
Uniqueness of Whittacker Models for some supercuspidals of the n-fold Metaplectic Cover of SL(n, F), F non-archimedian local.

16:00 - 16:30 A. Saikia (University of Cambridge, U.K.)
A simple proof of a lemma of Coleman.

16:30 - 17:00 A. Prasad (University of Chicago, U.S.A.)
"Almost unramified" discrete spectrum for a split reductive group over $\mathbf{F}_q(t)$.

Friday, 11 August

9:30 - 10:30 G. Harder (Universität Bonn, Germany)
Trace Formula and its applications (II)

11:00 - 12:00 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
L-functions for GL(n) (V)

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
The local Langlands correspondence for GL(n) over p-adic fields (V)

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FINAL CONFERENCE

Week 3 (14 - 18 August)

VENUE: MAIN LECTURE HALL, MAIN BUILDING

Monday, 14 August

9:30 - 10:30 J. Cogdell (Oklahoma State University, Stillwater, U.S.A.)
On lifting from classical groups to GL(n).

11:00 - 12:00 D. Prasad (Mehta Research Institute, Allahabad, India)
On a conjecture of Jacquet about distinguished representations of GL(n).

14:00 - 15:00 D. Blasius (University of California, Los Angeles, U.S.A.)
Hilbert Modular Forms, Elliptic Curves and Hodge Conjecture.

15:30 - 16:30 R. Hill (University College London, U.K.)
Metaplectic extensions of GL(n) and the Gauss-Schering Lemma.

Tuesday, 15 August

9:30 - 10:30 F. Shahidi (Purdue University, West Lafayette, U.S.A.)
New cases of Langlands functoriality.

11:00 - 12:00 M. Rapoport (Universität zu Köln, Germany)
Flag varieties of loop groups and local models of Shimura varieties.

14:00 - 15:00 J. Bernstein (Tel Aviv University, Israel)
A remark on local trace formula for p-adic reductive groups.

15:15 - 16:15 R. Miatello (Universidad Nacional de Córdoba, Argentina)
Density results for automorphic forms on the Hilbert modular group.

16:30 - 17:30 J.K. Mahnkopf (Universität Heidelberg, Germany)
Cohomology of arithmetic groups and values of automorphic L-functions on GL(n).

Wednesday, 16 August

9:30 - 10:30 R. Livne (Hebrew University, Jerusalem, Israel)
Cubic exponential sums and metaplectic forms.

11:00 - 12:00 M.F. Vigneras (Université de Paris VII, France)
Local Langlands correspondence modulo l.

14:00 - 15:00 R. Tandon (University of Hyderabad, India)
A criterion for base change in terms of epsilon factors.

15:30 - 16:30 J.P. Funke (Max-Planck-Institut für Mathematik, Bonn, Germany)
Cycles in hyperbolic space and Siegel modular forms.

Thursday, 17 August

9:30 - 10:30 G. Savin (University of Utah, Salt Lake City, U.S.A.)
Fourier coefficients for G_2.

11:00 - 12:00 D. Ramakrishnan (Caltech, Pasadena, U.S.A.)
The strong Artin conjecture for solvable Galois representations of GO(4)-type.

14:00 - 15:00 T. Wedhorn (Universität zu Köln, Germany)
A stratification of Shimura varieties.

15:30 - 16:30 R. Schmidt (Universität des Saarlandes, Saarbrucken, Germany)
Siegel Modular Forms and Representations.

Friday, 18 August

9:30 - 10:30 T.N Venkataramana (T.I.F.R., Mumbai, India)
Cycles on compact locally symmetric varieties.

11:00 - 12:00 G. Harder (Universität Bonn, Germany)
Mixed motives in Shimura varieties.

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SCHOOL ON AUTOMORPHIC FORMS

ON GL(n)

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LECTURE NOTES

SMR1233/1 **The local Langlands correspondence for GL(n) over p-adic fields.**
T. Wedhorn

SMR1233/2 **Notes on *L*-functions for GL(n).**
J.W. Cogdell

SMR1233/3 **Minkowski reduction.**
M.S. Raghunathan

SMR1233/4 **Classical Modular Forms.**
T.N. Venkataramana

SMR1233/5 **Representation theory of GL(n) over non-Archimedean local fields.**
D. Prasad

SMR1233/6 **The Langlands Program (An overview).**
G. Harder

SMR1233/7 **Modularity of solvable Artin representations of GO(4)-type.**
D. Ramakrishnan