

HILBERT MODULAR FORMS AND VARIETIES
Program for ATM Workshop
KERELA SCHOOL OF MATHEMATICS, KOZHIKODE
January 21-31, 2013
Speakers and Topics

Monday, 21/1

Speakers	Topic
Ghate	Overview on HMFs and HMVs
Kassaei	Mini-course I: mod p and p -adic methods
Balasubramanyam	Freitag 1.1: $SL_2(\mathbf{R})$
Schein	Mini-course II: Galois representations

Tuesday, 22/1

Speakers	Topic
Kassaei	Mini-course I: mod p and p -adic methods
Balasubramanyam	Freitag 1.2: $SL_2(\mathbf{R})^n$
Schein	Mini-course II: Galois representations
Sharma	Freitag 1.3: Hilbert modular group
Bhattacharya	Freitag 1.4: Automorphic forms

Wednesday, 23/1

Speakers	Topic
Manickam	Freitag 1.5: Construction of Hilbert modular forms
Schein	Mini-course II: Galois representations
Kassaei	Mini-course I: mod p and p -adic methods

* Afternoon free

Thursday, 24/1

Speakers	Topic
Schein	Mini-course II: Local Langlands
Kassaei	Mini-course I: mod p and p -adic methods
Ganguli	Freitag 1.6: Finiteness of dimension
Varma	Freitag 2.1: Selberg Trace Formula

Friday, 25/1

Speakers	Topic
Varma	Freitag 2.2: Dimension formula in the cocompact case
Kassaei	Mini-course I: mod p and p -adic methods
Schein	Mini-course II: Local Langlands
Schein	Mini-course II: Local Langlands

Saturday, 26/1

Speakers	Topic
Anandavardhanan	Mini-course IV: mod p supercuspidal for GL_n
Anandavardhanan	Mini-course IV: mod p supercuspidal for GL_n
Sreekantan	van der Geer Ch. 2: Resolution of cuspidal singularities
Rotger	Mini-course III: Cycles and rational points

* Sunday 27/1 free

Monday, 28/1

Speakers	Topic
Rotger	Mini-course III: Cycles and rational points
Raghuram	Mini-course V: Cohomology of HMs
Anandavardhanan	Mini-course IV: mod p supercuspidal for GL_n
Raghunathan	Freitag 2.3: Contribution of cusps to the trace formula
Muralitharan	Freitag 2.4: An algebraic geometric method

Tuesday, 29/1

Speakers	Topic
Rotger	Mini-course III: Cycles and rational points
Sreekantan	van der Geer Ch. 2: Resolution of cusp singularities
Raghuram	Mini-course V: Cohomology of HMFs
Krishnamoorthy	van der Geer Ch. 6.4: Doi-Naganuma lift and base change

Wednesday, 30/1

Speakers	Topic
Raghuram	Mini-course V: Cohomology of HMFs
Rotger	Mini-course III: Cycles and rational points
Ghate	Mini-course VI: Congruences for HMFs
Shekhar	van der Geer Ch. 11: Tate conjecture for HMFs

Thursday, 31/1

Speakers	Topic
Ghate	Mini-course VI: Congruences for HMFs
Extra talk	

* Departure after lunch