BIRS Workshop on
Current trends in arithmetic geometry and number theory
August 17–21, 2003

Sunday, August 17

9:00 – 10:00 Brian Conrad (University of Michigan - Ann Arbor)
p-adic Hodge theory 1

10:00 – 10:30 Coffee break

10:30 – 11:30 Brian Conrad (University of Michigan - Ann Arbor)
p-adic Hodge theory 2

11:30 – 1:00 Lunch

1:30 – 2:10 Haruzo Hida (UCLA)
Anticyclotomic main conjecture

2:20 – 3:00 Ehud de Shalit (Hebrew University, Givát-Ram)
The p-adic monodromy-weight conjecture for p-adically uniformized varieties

3:00 – 3:30 Coffee break

3:30 – 4:10 Eric Urban (LAGA-CNRS)
Deformations of Eisenstein series and applications

4:20 – 5:00 Matt Emerton (Northwestern University)
Ramification of Hecke algebras at Eisenstein primes

Monday, August 18

9:00 – 10:00 Adrian Iovita (University of Washington)
Introduction to Phi-Gamma Modules 1

10:00 – 10:30 Coffee break

10:30 – 11:30 Adrian Iovita (University of Washington)
Introduction to Phi-Gamma Modules 2

11:30 – 1:00 Lunch

1:30 – 2:10 Jeremy Teitelbaum (University of Illinois at Chicago)
An update on p-adic analytic representation theory

2:20 – 3:00 Gebhard Boeckle (ETH-Zuerich)
A conjecture of de Jong

3:00 – 3:30 Coffee break

3:30 – 4:10 Adebisi Agboola (University of California Santa Barbara)
Anticylotomic main conjectures for CM elliptic curves

4:20 – 5:00 Graham Herrick (Northwestern University)
Cusp Forms mod p and Conjectural Slope Formulae

Tuesday, August 19

9:00 – 10:00 Nathalie Wach (IRMA, Univ. Strasbourg)
Phi-gamma modules of finite height

10:00 – 10:30 Coffee break

10:30 – 11:30 Pierre Colmez
Overconvergent Phi-gamma modules

Free Afternoon

Wednesday, August 20

9:00 – 9:40 Robert Pollack (University of Chicago)
Relations between congruences of modular forms and the main conjecture

9:50 – 10:30 Robert Coleman (University of California Berkeley)
$X_0(125)$

10:30 – 10:45 Coffee break

10:45 – 11:45 Laurent Berger (Harvard University)
p-adic Galois representations and p-adic differential equations I

11:30 – 1:00 Lunch

1:30 – 2:30 Laurent Berger (Harvard University)
p-adic Galois representations and p-adic differential equations II

2:30 – 2:45 Coffee break

2:45 – 3:25 Thomas Zink (Universitat Bielefeld)
Higher displays in the cristalline cohomology over an Artinian ring

3:35 – 4:15 Mak Trifkovic
Elliptic curves over imaginary quadratic fields and p-adic constructions of rational points

4:15 – 4:30 Break

4:30 – 5:30 Kiran Kedlaya (MIT)
Frobenius slope filtrations and Crew's conjecture

Thursday, August 21

After much discussion, it was eventually decided to not plan any formal activities on Thursday morning. Participants can use the last day for informal discussion or to catch early flights.

Check out by noon.