

CTNT 2016 Research Conference
Elliptic Curves, Modular Forms and Related Topics
August 12-14, 2016

Conference Schedule

Plenary Talks will be held in BPB 131

Contributed Talks (parallel sessions) will be held in BPB 130, BPB 131, and PB 36.

Breakfast/Refreshments/Registration will be held outside of BPB 130/131.

Friday, August 12, 2016

1:25pm - 1:30pm Welcome and Introduction

1:30pm - 2:25pm Bill Duke (UCLA)
The distribution of certain surfaces associated to real quadratic fields

2:30pm - 3:00pm Break

3:00pm - 3:55pm Ken Ono (Emory)
Zeta polynomials for modular forms

4:00pm - 4:20pm Break

4:20pm - 5:45pm Contributed Talks, Parallel Sessions 1a, 1b

Session 1a (BPB 131)

4:20pm - 4:40pm Luca Candelori (LSU)
Geometric and p -adic aspects of mock modular forms

4:50pm - 5:10pm Holly Swisher (Oregon State)
Quantum mock modular forms arising from eta-theta functions

5:20pm - 5:40pm Chang Heon Kim (Sungkyunkwan U)
Weakly holomorphic Hecke eigenforms and Hecke eigenpolynomials

Session 1b (BPB 130)

4:20pm - 4:40pm Michael Chou (UConn)
Torsion of rational elliptic curves over the maximal abelian extension of \mathbb{Q}

4:50pm - 5:10pm Rachel Davis (Purdue)
Origami Galois representations

5:20pm - 5:40pm Ozlem Ejder (USC)
Torsion groups of elliptic curves over quadratic cyclotomic fields in elementary abelian 2-extensions

Special Event (Laurel Hall 102):

7:45pm - 9:45pm “The Man Who Knew Infinity” (film)

9:45pm - 10:15pm Q&A with Ken Ono (film consultant and associate producer)

Saturday, August 13, 2016

- 8:45am - 9:15am Refreshments/Coffee
- 9:15am - 10:10am Ling Long (LSU)
Hypergeometric functions over finite fields
- 10:15am - 10:40am Break
- 10:40am - 11:35am Jeffrey Lagarias (Michigan)
The Lerch zeta function and the Heisenberg group
- 11:40am - 1:15pm Lunch Break
- 1:15pm - 1:50pm Michael Griffin (Princeton)
Thompson Moonshine
- 1:55pm - 2:15pm Break
- 2:15pm - 2:50pm Nick Andersen (UCLA)
Kloosterman sums and Maass cusp forms of half-integral weight
- 2:55pm - 3:25pm Break
- 3:25pm - 5:35pm Contributed Talks, Parallel Sessions 2a, 2b, 2c
- Session 2a (BPB 131)
- 3:25pm - 3:45pm Hui Xue (Clemson)
Degree two monomial relations between eigenforms
- 4:00pm - 4:20pm Shenhui Liu (Ohio State)
Central L-derivative values of automorphic forms
- 4:35pm - 4:55pm Jeff Manning (UChicago)
Multiplicities of Galois representations in the mod- ℓ cohomology of Shimura curves
- 5:10pm - 5:30pm Rufe Ren (UC Irvine)
Slopes for higher rank Artin-Schreier-Witt towers
- Session 2b (BPB 130)
- 3:25pm - 3:45pm E. Mehmet Kiral (Texas A&M)
The Voronoi formula and double Dirichlet series
- 4:00pm - 4:20pm Edmund Karasiewicz (Rutgers)
Weyl group multiple Dirichlet series and Fourier coefficients of Eisenstein series on the double cover of $GL(3, \mathbb{R})$
- 4:35pm - 4:55pm Fan Zhou (Ohio State)
Sato-Tate and Plancherel equidistribution of Satake parameters
- 5:10pm - 5:30pm Dong Sung Yoon (KAIST)
Generators of Siegel modular function fields of higher genus and level
- Session 2c (PB 36)
- 3:25pm - 3:45pm Daeyeol Jeon (Kongju National)
Modular curves with infinitely many cubic points
- 4:00pm - 4:20pm Wade Hindes (CUNY)
The average number of integral points in orbits
- 4:35pm - 4:55pm Antonella Perucca (U. Regensburg)
Reductions of elliptic curves
- 5:10pm - 5:30pm Christine McMeekin (Cornell)
On the distribution of splitting behavior in number fields depending on p
- Special Event (Alumni Center, “Great Hall” (2384 Alumni Drive)):
- 7:00pm - 9:00pm Banquet Dinner, for registered participants

Sunday, August 14, 2016 **NEW REVISED SCHEDULE**

8:45am - 9:15am Refreshments/Coffee

9:15am - 10:10am Kiran Kedlaya (UCSD)
Introducing the L-Functions and Modular Forms Database

10:10am - 10:25am..... Break

10:25am - 11:20am..... Rachel Pries (Colorado State)
Galois action on Fermat curves and Heisenberg extensions

11:20am - 11:35am Break

11:35am - 12:10pm John Bergdall (Boston University)
Geometric properties of p -adic families of automorphic forms and applications