

Preliminary version
Last update made Tue Mar 10 22:08:40 EDT 2009.

QUADRATIC FORMS, SUMS OF SQUARES, THETA FUNCTIONS AND INTEGRAL LATTICES CONFERENCE

March 11 – 14, 2009

University of Florida, Gainesville, FL 32611

SCHEDULE

Location. All lectures are in Little Hall Room 101. Refreshments will be in Little Hall Room 339, which is also known as the Atrium.

★ ★ ★

Wednesday, March 11, 2009

9:00AM - 9:50AM

Noam Elkies, Harvard University
Weighted theta functions, and a coding analog

10:00AM - 10:20AM

Ryan Skip Garibaldi, Emory University
Vanishing of trace forms on Lie algebras

10:30AM - 11:00AM

BREAK

11:00AM - 11:50AM

Jonathan Hanke, University of Georgia at Athens
The 290-Theorem and representing numbers by quadratic forms

12:00PM - 2:00PM

LUNCH

2:00PM - 2:20PM

Guillermo Mantilla, University of Wisconsin
Integral trace forms associated to cubic extensions

2:30PM - 2:50PM

John Voight, University of Vermont
Characterizing quaternion rings

3:00PM - 3:20PM

Gabriele Nebe, RWTH Aachen, Germany
Automorphism groups of Type II codes

3:30PM - 4:00PM

BREAK

4:00PM - 4:20PM

Byungchan Kim, University of Illinois, Urbana
Combinatorics of partial theta functions

4:30PM - 4:50PM

Jaebum Sohn, Yonsei University, Korea / University of Illinois
Character analogues of theorems of Ramanujan, Koshliakov and Guinand

5:10PM - 6:00PM

Akshay Venkatesh, Stanford University
Geometry of Numbers, Old and New

7:00PM - 9:00PM

BANQUET at the Friends of the Music Room

★ ★ ★

Thursday, March 12, 2009

9:00AM - 9:50AM

Raman Parimala, Emory University
Isotropy of quadratic forms over function fields of p -adic curves

10:00AM - 10:20AM

Hershel Farkas, Hebrew University, Jerusalem
Theta Constant Identities and Number Theory

10:30AM - 11:00AM

BREAK

11:00AM - 11:50AM

George Andrews, Pennsylvania State University
Parity in Partition Identities

2:00PM - 2:50PM

Robert Griess, University of Michigan
Barnes-Wall Lattices and their Cousins

3:00PM - 3:20PM

Hideyo Sasaki, Otemae College, Itami, Japan
Quaternary universal forms over $\mathbf{Q}(\sqrt{13})$

3:30PM - 4:00PM

BREAK

4:00PM - 4:20PM

Jeremy Rouse, University of Illinois, Urbana
Bounds for the coefficients of powers of the Δ -function

4:30PM - 4:50PM

Ae Ja Yee, Pennsylvania State University

Parity Problems in Partitions

5:00PM - 5:30PM

Kagan Kursungoz, Pennsylvania State University

Parity Considerations in Andrews-Gordon Identities

7:30PM - 10:00PM

PARTY at the home of Krishna and Mathura Alladi

* * *

Friday, March 13, 2009

9:00AM - 9:50AM

Rainer Schulze-Pillot, Saarland University, Saarbruecken

Representation of quadratic forms

10:00AM - 10:20AM

Roger Baker, Brigham Young University

The values of quadratic forms at squarefree points

10:30AM - 11:00AM

BREAK

11:00AM - 11:50AM

Ken Ono, University of Wisconsin

Heegner divisors, L-functions and Maass forms

12:00PM - 2:00PM

LUNCH

2:00PM - 2:50PM

John Thompson, University of Florida and Cambridge

Dirichlet Series and $SL(2, Z)$

3:00PM - 3:20PM

Amanda Folsom, University of Wisconsin

q-series and weight $3/2$ Maass forms

3:30PM - 4:00PM

BREAK

4:00PM - 4:20PM

Riad Masri, University of Wisconsin

Equidistribution of Heegner points and the partition function

4:30PM - 4:50PM

Atul Dixit, University of Illinois at Urbana-Champaign

Analogues of a transformation formula of Ramanujan

5:00PM - 5:30PM

Heiko Todt, Pennsylvania State University
Asymptotic formulas for partitions into (distinct) k -th powers

* * *

Saturday, March 14, 2009

9:00AM - 9:50AM

Bruce Berndt, University of Illinois, Urbana
Ramanujan's Contributions to Theta Functions

10:00AM - 10:20AM

Karl Mahlburg, MIT
Asymptotics for crank and rank moments

10:30AM - 11:00AM

BREAK

11:00AM - 11:50AM

Stephen C. Milne, The Ohio State University
Sums of squares, the Leech lattice, and new formulas for Ramanujan's tau function and other classical cusp forms

12:00PM - 2:00PM

LUNCH

2:00PM - 2:20PM

Sander Zwegers, University College Dublin
Multivariable Appell functions and non-holomorphic modular forms

2:30PM - 2:50PM

Richard McIntosh, University of Regina, Canada
Divisor sums and theta functions

3:00PM - 3:20PM

James Sellers, Pennsylvania State University
Elementary proofs of parity results for 5-regular partitions

3:30PM - 4:00PM

BREAK

4:00PM - 4:20PM

Andrew Sills, Georgia Southern University
A new look at some partition identities of Goellnitz

4:30PM - 4:50PM

Michael Rowell, Pacific University
Obtaining New Indefinite Quadratic Forms