

Mid-Hudson Math Conference for Undergraduates
October 20th, 2007
Reem and Kayden Center for Science and Computation
Bard College

NOTE: * denotes an advanced level talk. All others are elementary

9:00 – 10:00 Registration and Continental Breakfast, RKC Lobby

10:00-11:10 Student Presentation Session A (3 talks, 20 minutes each)

RKC 101: Session A1 – Chair, Mona Merling

- 10:00 Critical Curves of Knot Energy, Matthew Wise, Vassar College
- 10:25 Finite Instances of Knot Quandles and the Constraint Satisfaction Problem, Peter Golbus, Bard College
- 10:50 Toward Quandle Dichotomy*, Mona Merling, Bard College

RKC 102: Session A2 - Chair: Dexin Zhou

- 10:00 Data Mining Algorithms, Dexin Zhou, Bard College
- 10:25 Solving LaPlace's Equation with Complex Polynomials Using Mathematica, Cadets Addison Bohannon and Andrew Poler, USMA
- 10:50 Dirichlet's Integral*, Stela Mihneva, St. Francis College

RKC 103: Session A3 - Chair: Shelley Stahl

- 10:00 Enumerating Chains in Partially Ordered Sets, Shelley Stahl and Ezra Winston, Bard College
- 10:25 Complexers on Stars, Lindsay Erickson, NYU/University of Washington
- 10:50 Properties of Exponential Matrices, Lerone Bleasdille, College of Technology of CUNY

11:30-12:30 Invited Address by Rob Benedetto of Amherst College. “Introduction to the abc Conjecture”, Weiss Cinema in the Bertelsmann Campus Center.

12:30 - 1:30 Lunch in the Multipurpose Room of the Campus Center

1:15 – 1:50 Special screening of “Flatland”, RKC 103

2:00 – 3:10 Student Presentation Session B (3 talks, 20 minutes each)

RKC 101: Session B1 - Chair: Morgon Kanter

- 2:00 Generation of Megagraphs, Morgon Kanter, Bard College
- 2:25 Self Contact in Fractal Trees, Bailey Meeker, Hobart and William Smith
- 2:50 Subcubes of the hypercube, Qn, Anthony Delgado, Purchase College

RKC 102: Session B2 - Chair: Natalie Frank

- 2:00 A Generalization of Recursive Integer Sequences of Order 2, Stephen Parry, Elmira College
- 2:25 Iterating a Voronoi Diagram, Sean Hart, Vassar College
- 2:50 Voronoi Inverses, Richard Langford, Vassar College

RKC 103: Session B3: Chair: Tracey McGrail

- 2:00 Mathematical Models of Reptiles, Michael Zawoiski, City College
- 2:25 The Lion and Man Game in the P, David Cerna, RPI
- 2:50 Evolved Art - planetary motion, Jeffrey Tsang, Univ. of Guelph

3:15 – 3:45 Afternoon Break, RKC Lobby

3:45 – 4:50 Presentation Session C

RKC 101

- 3:45-4:10 REU Information Session (Drop in session)

RKC 102

- 3:45-4:10 Bard Masters in Teaching Program: Slideshow and info session (Drop in session)

RKC 103

- 3:45-4:20 Screening of Flatland
- 4:20-4:50 Graduate School Panel and Information Session