UNIVERSITY OF NORTH TEXAS
MATHEMATICS UNDERGRADUATE COLLOQUIUM

**Tuesday,
Sept 24, 2013
4:00 - 5:00 PM**

**General
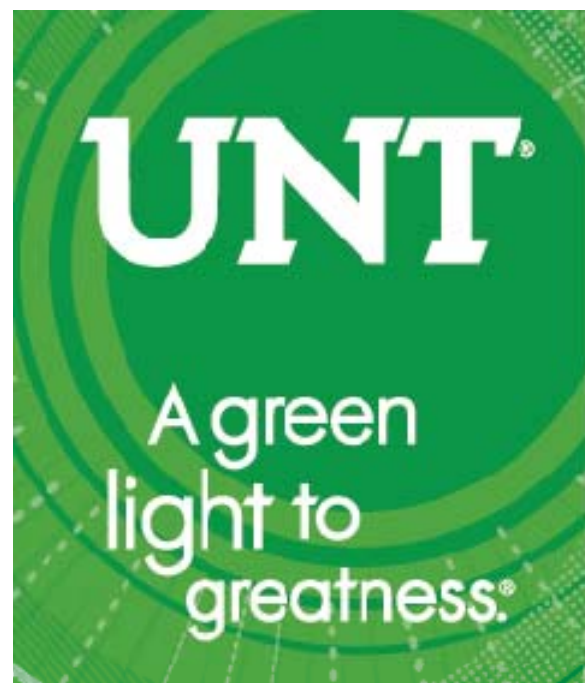Academic
Building,
Room 105**

A pre-lecture reception with cookies, coffee and tea will be held at 3:30 PM in the General Academic Building, Room 472.

The colloquium is sponsored by UNT Department of Mathematics and the **RTG in Logic & Dynamics,** a research training group supported by the National Science Foundation and the University of North Texas.

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www.math.unt.edu/rtg

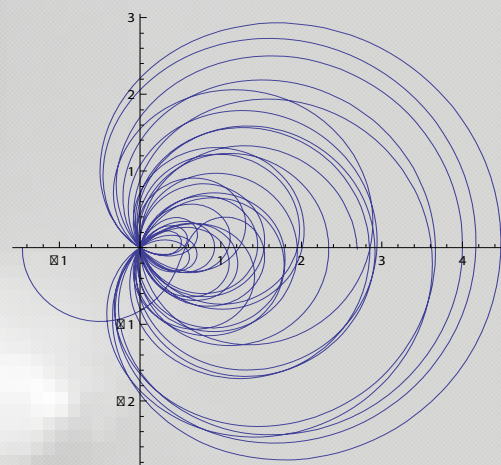UNT campus parking information can be found at:
http://www.unt.edu/transit/

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A green light to greatness.

Jennifer Beineke
Western New England University

Great Moments of the Riemann Zeta Function

Movies have great moments and sports have great moments, but mathematics has the greatest moments of all. In this talk, we will explore moments of the Riemann zeta function (also known as mean values), and we will revisit the momentous discoveries of Hardy, Littlewood, and Ingham in the 1920s. We will also discuss memorable moments that today's number theorists have encountered as they work on open problems related to the Riemann Hypothesis.

Jennifer Beineke is a Professor of Mathematics at Western New England University, where she has taught since 2001, and where she works with local secondary education teachers through their Master's Program in Mathematics for Teachers. Born in Indiana, she obtained Bachelor's degrees in Mathematics and French from Purdue University, and went on to earn her Master's and Ph.D. degrees from UCLA, specializing in number theory. She also held a visiting position at Trinity College in Hartford, CT, where she received the Arthur H. Hughes Award for Outstanding Teaching Achievement.

Besides her research and teaching, other activities Jennifer enjoys include reading, working on puzzles and cryptic crosswords, and traveling with her filmmaker husband and three young children.   Not only have the children accompanied her to a variety of conferences, but most significantly, like many a distinguished mathematician, they have slept soundly through numerous talks.