Mathematics, Statistics, and Computer Science   **@ UIC**

Graduate Student Colloquium

The p-adic Mandelbrot Set and Other Peculiarities of Arithmetic Dynamics

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Abstract: The goal of this talk is to introduce the subject of p-adic dynamics: the study of dynamics over a field that is complete with respect to a nonarchimedean absolute value. We will discuss some of the major results, with a little motivation from classical complex dynamics. No previous knowledge of dynamical systems or number theory will be assumed.

Monday, November 30 at 4:00 PM in BH 209