

# ALGEBRAIC GEOMETRY AND NUMBER THEORY SEMINAR

3:30 PM, Wednesday, October 8, 2014, Martin M-102  
Refreshments 3:00 PM, Martin O-section foyer

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## An equidistribution result in non-archimedean dynamics

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Let  $K$  be an algebraically closed field that is complete with respect to a non-Archimedean absolute value. Let  $\phi \in K(z)$  have degree  $d \geq 2$ . Recently, Rumely introduced a measure  $\nu_\phi$  on the Berkovich line over  $K$  that carries information about the reduction of  $\phi$ . In particular, the measure  $\nu_\phi$  charges a single point if and only if  $\phi$  has good reduction at that point. Otherwise,  $\nu_\phi$  charges finitely many points, which can be thought of as having "spread out" the point of good reduction. In this talk, we will show that the family of measures  $\{\nu_{\phi^n}\}$  attached to the iterates of  $\phi$  equidistribute to the invariant measure  $\mu_\phi$ , a canonical object arising in the study of discrete dynamical systems.

**All welcome.** Research students in particular are encouraged to attend.

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For further information, contact Jim Brown, [jimlb@clemsn.edu](mailto:jimlb@clemsn.edu), Long 111.

**Online:** <http://www.math.clemson.edu/~jimlb/NumberTheoryGroup/NTSeminar.html/>