1086-11-1183 **Mirela Ciperiani***, The University of Texas at Austin, Austin, TX 78712. *The computation of anticyclotomic Λ-adic regulators of elliptic curves.*

Let E be an elliptic curve defined over $\mathbb{Q}$, K an imaginary quadratic field, and p a prime of good ordinary non-anomalous reduction. Set $\mathcal{U}$ to be the inverse limit of the points of E defined over the layers of the anticyclotomic $\mathbb{Z}_p$-extension of K. The image of $\mathcal{U}$ under the cyclotomic p-adic height pairing is generated by the anticyclotomic Λ-adic regulator. If K satisfies the Heegner hypothesis, the elliptic curve has analytic rank 1 over K, and the Heegner point defined over K is not divisible by p, then Heegner points generate $\mathcal{U}$.

In this talk, we will describe a method that allows us to compute anticyclotomic Λ-adic regulators. We generalize results of Cohen and Watkins, and thereby compute Heegner points defined over different layers of the anticyclotomic $\mathbb{Z}_p$-extension of K. We also prove a connection which gives rise to an efficient way of using results of Mazur-Stein-Tate to compute p-adic heights. This is joint work with Jennifer Balakrishnan and William Stein. (Received September 19, 2012)