1154-11-1197 **Heidi Goodson*** (heidi.goodson@brooklyn.cuny.edu). *Sato-Tate Groups of Trinomial Hyperelliptic Curves.*

Let $C_m : y^2 = x^m + c$ be a smooth projective curve defined over $\mathbb{Q}$. We would like to study the limiting distributions of the coefficients of the normalized L-polynomial for C_m. To determine the distributions, we study the Sato-Tate groups of the Jacobians of the curves. In this talk we give both general results and explicit examples of Sato-Tate groups for certain curves C_m. We will use these groups to determine the limiting distributions of the coefficients of the normalized L-polynomial. (Received September 13, 2019)