Speaker: Daniel Disegni

Title: p-adic equidistribution of CM points

Abstract: Consider a sequence of CM points of increasing p-adic conductor on a modular curve X. What is its limiting distribution in any of the geometric incarnations of X? Works from the 2000s give the answer for the Riemann surface $X(\mathbb{C})$, and for the reduction of X modulo primes. The (Berkovich) q-adic analytic setting has been studied more recently. The results (and their proofs) are markedly different according to whether q is equal to p or not. After briefly discussing the second case, due to Menares–Herrero–Rivera-Letelier, I will focus on the p-adic case.