Title: Self-points on elliptic curves

Abstract: Let E be an elliptic curve of conductor N. Given a cyclic subgroup C of order N in E, we construct a modular point P_C on E, called self-point, as the image of (E,C) on $X_0(N)$ under the modular parametrisation $X_0(N) \to E$. If N=p is prime, we prove that the point is of infinite order in the Mordell-Weil group of E over the field of definition of C. The study of these points in the $PGL_2(\mathbb{Z}_p)$ -tower inside $\mathbb{Q}(E[p^\infty])$ continues earlier work of Harris.