# RATIONAL POINTS ON $X_0^+(p)$

STEVEN D. GALBRAITH

ABSTRACT. We study the rational points on $X_0^+(p) = X_0(p)/W_p$. It is known that there are rational points corresponding to cusps and elliptic curves with complex multiplication (CM). We use computational methods to exhibit exceptional rational points on $X_0^+(p)$ for $p = 73$, 103, 137, 191 and 311. We also provide the $j$-invariants of the corresponding non-CM quadratic $\mathbb{Q}$-curves.