Christelle Vincent* (cvincent@stanford.edu), Stanford, CA 94305. Weierstrass points on Drinfeld modular curves.

We consider the so-called Drinfeld setting, a function field analogue of some aspects of the theory of modular forms, modular curves and elliptic curves. We are interested in studying a finite set of points of geometric interest, the Weierstrass points, of the curve $X_0(p)$ for $p$ a prime ideal. We show that each supersingular $j$-invariant, except possibly the elliptic $j$-invariant $j = 0$, is the reduction modulo $p$ of the $j$-invariant of a Weierstrass point of the modular curve $X_0(p)$. (Received September 16, 2014)