

---

**ARIANE MASUDA**, New York City College of Technology, CUNY  
*Goppa Codes over Kummer extensions*

We compute the Weierstrass semigroup at one totally ramified place for Kummer extensions defined by  $y^m = f(x)^\lambda$  where  $f(x)$  is a separable polynomial over  $\mathbb{F}_q$ . In addition, we compute the Weierstrass semigroup at two certain totally ramified places. Then we apply our results to construct one- and two-point Goppa codes with good parameters.