

# On Selmer groups over function fields of characteristic $p > 0$

(F. Trihan, joint work with T. Ochiai)

Let  $A/F$  be an abelian variety over a function field in one variable with constant field a finite field of characteristic  $p > 0$ . We show that the Selmer group of  $A$  computed over the cyclotomic extension is a module of torsion over the Iwasawa algebra. We also study the case of non-commutative extensions of  $F$ .