

**Speaker:** Yves Aubry

**Title:** Closed points on curves over finite fields

**Abstract.** We are interested in the quantity  $\rho(q, g)$  defined as the smallest integer such that  $r \geq \rho(q, g)$  implies that any absolutely irreducible smooth projective algebraic curve defined over  $\mathbb{F}_q$  of genus  $g$  has a closed point of degree  $r$ . We give general upper bounds for this quantity and its exact value for  $g$  less than or equal to 3 and for any prime power  $q$ .

**N.B.** This is joint work with Fabien Herbaut and Julien Monaldi.