

Weierstrass points on Kummer extensions and a characterization of maximal curves

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(Joint work with M. Abdón and L. Quoos)

In this talk, we discuss how some recent progress related to Weierstrass gaps of totally ramified places on Kummer extensions $y^m = f(x)$ can be used to extend certain results ([1],[2]) on \mathbb{F}_{q^2} -maximal Kummer extensions.

References

- [1] *A. Garcia* and *S. Tafazolian*, Certain maximal curves and Cartier operators, *Acta Arith.* **135** (2008), 199–218.
- [2] *S. Tafazolian*, and *F. Torres*, On maximal curves of Fermat type, *Adv. Geometry*, **13** (4) (2013), 1615–7168.