

ON SOME GENERALIZED FERMAT CURVES

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Let \mathcal{X} be the nonsingular model defined over \mathbb{F}_q of

$$\mathcal{F} : F(X, Y) = aX^nY^n - X^n - Y^n + b = 0$$

and let $\overline{\mathbb{F}_q}(\mathcal{X}) = \overline{\mathbb{F}_q}(x, y)$ be the function field of \mathcal{X} , where x and y satisfy $F(x, y) = 0$. In this talk, we will discuss the classicality and the \mathbb{F}_q -Frobenius classicality for some specific linear series on \mathcal{X} .

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