

On the Rational Cuspidal Divisor Class Groups of Drinfeld Modular Curves $X_0(\mathfrak{p}^r)$

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January 25, 2023

Abstract

In this paper, we study the structure of the rational cuspidal divisor class group $C(\mathfrak{n})$ of Drinfeld modular curve $X_0(\mathfrak{n})$ for prime power level $\mathfrak{n} = \mathfrak{p}^r \in \mathbb{F}_q[[T]]$. We compute an upper and a lower bound for the order of $[0] - [\infty]$ in $C(\mathfrak{n})$. When $\gcd(\deg(\mathfrak{p}), q-1) = 1$, the two bounds match and give us the exact order of $[0] - [\infty]$. As a result, we are able to determine explicitly the structure of the prime-to- $(q-1)$ part of $C(\mathfrak{T}^r)$ for arbitrary $r \geq 3$.

1 Notation

\mathbb{F}_q	= finite field of characteristic p with q elements
A	= $\mathbb{F}_q[[T]]$ polynomial ring in T
K	= $\mathbb{F}_q((T))$ rational function field
K_π	= $\mathbb{F}_q((\pi))$ completion of K at the infinite place ($\pi := T^{-1}$)
$ \cdot _\infty$	= normalized absolute value on K_∞
\mathcal{O}_π	= $\mathbb{F}_q[[\pi]]$ integers in K_∞
$\bar{}$	= completed algebraic closure of K_∞
\mathbb{H}	= $\mathbb{C}_\infty = K_\infty$ Drinfeld upper half-plane
G	= group scheme $\mathrm{GL}(2)$
\mathbb{N}	= scalar matrices in G
Γ	= $G(A)$
\mathcal{K}	= $G(\mathcal{O}_\pi)$
\mathcal{I}	= $\left\{ \begin{pmatrix} a & b \\ c & d \end{pmatrix} \in \mathcal{K} \mid c = 0 \pmod{\pi} \right\}$ Iwahori subgroup
$\Gamma_0(\mathfrak{n})$	= $\left\{ \begin{pmatrix} a & b \\ c & d \end{pmatrix} \in \Gamma \mid c = 0 \pmod{\mathfrak{n}} \right\}$ for monic $\mathfrak{n} \in A$
$X_0(\mathfrak{n})$	= $\Gamma_0(\mathfrak{n}) \backslash \Omega \cup \{\text{cusps}\}$
$Y_0(\mathfrak{n})$	= $\Gamma_0(\mathfrak{n}) \backslash \Omega \hookrightarrow X_0(\mathfrak{n})$
\mathcal{T}	= Bruhat-Tits tree of $\mathrm{PGL}(2, K_\infty)$
$\mathcal{X}(\mathcal{T})$	= $G(K_\infty)/\mathcal{K} = \mathcal{Z}(K_\infty)$ vertices of \mathcal{T}
$\mathcal{Y}(\mathcal{T})$	= $G(K_\infty)/\mathcal{I} = \mathcal{Z}(K_\infty)$ oriented edges of \mathcal{T}

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