

- On page 16, there is a sign error. The expression in Lemma 1.9 (Newton's determinant formula) should read

$$\exp\left(-\sum_{k=1}^{\infty}\text{Trace}\left(\varphi^k|V\right)\frac{t^k}{k}\right).$$

- On page 27, the Drinfel'd–Vlăduț bound should be

$$\limsup_{g\rightarrow\infty}N_q(g)/g\leq\sqrt{q-1}.$$

- In the footnote on page 41, I write ‘They were introduced by Miura [83] and generalize the class of hyperelliptic curves (which are $C_{2,2g+1}$ curves).’ In fact, $C_{a,b}$ curves only generalize the class of hyperelliptic curves *having a rational Weierstrass point*.
- On page 61, right after Definition 3.14, I write that a Laurent polynomial f that is nondegenerate with respect to its Newton polytope $\Gamma(f)$, always defines a nonsingular variety $V(f)$ in $\mathbb{P}_{\Gamma(f)}$. This is not true.

What is true, is the weaker statement that $V(f)$ is nonsingular at every point where the ambient variety $\mathbb{P}_{\Gamma(f)}$ is itself nonsingular. But this is only guaranteed outside the codimension > 1 part of the tori that partition $\mathbb{P}_{\Gamma(f)}$. See [89, Proposition 1.2].

Note that in the 2-dimensional case, there is no problem. Here $V(f)$ does not intersect with the codimension > 1 tori of $\mathbb{P}_{\Gamma(f)}$, which are simply the points associated to the vertices of $\Gamma(f)$. Therefore, this erratum has no influence on the rest of the thesis (also compare with Theorem 2.9).