# ERRATUM: LINEAR PROJECTIONS AND SUCCESSIVE MINIMA 

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## §1. Erratum

The proof of Proposition 1 and Theorem 2 in [3] is incorrect. Indeed, Sections 2.5 and 2.7 in [3] contain a vicious circle: the definition of the filtration $V_{i}, 1 \leq i \leq n$, in Section 2.5 of that article depends on the choice of the integers $n_{i}$, when the definition of the integers $n_{i}$ in Section 2.7 depends on the choice of the filtration $\left(V_{i}\right)$. Thus, only Theorem 1 and Corollary 1 in [3] are proved. In the following we will prove another result instead of [3, Proposition 1].

## §2. An inequality

2.1. Let $K$ be a number field, let $O_{K}$ be its ring of algebraic integers, and let $S=\operatorname{Spec}\left(O_{K}\right)$ be the associated scheme. Consider a Hermitian vector bundle $(E, h)$ over $S$. Define the $i$ th successive minima $\mu_{i}$ of $(E, h)$ as in [3, Section 2.1]. Let $X_{K} \subset \mathbb{P}\left(E_{K}^{\vee}\right)$ be a smooth, geometrically irreducible curve of genus $g$ and degree $d$. We assume that $X_{K} \subset \mathbb{P}\left(E_{K}^{\vee}\right)$ is defined by a complete linear series on $X_{K}$ and that $d \geq 2 g+1$. The rank of $E$ is thus $N=d+1-g$. Let $h\left(X_{K}\right)$ be the Faltings height of $X_{K}$ (see [3, Section 2.2]).

For any positive integer $i \leq N$, we define the integer $f_{i}$ by the formulas

$$
\begin{aligned}
& f_{i}=i-1 \quad \text { if } i-1 \leq d-2 g \\
& f_{i}=i-1+\alpha \quad \text { if } i-1=d-2 g+\alpha, 0 \leq \alpha \leq g
\end{aligned}
$$

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