

# ARITHMETIC OF DEL PEZZO SURFACES OF DEGREE 1: ERRATUM

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I turned the thesis into two papers: [VA08] and [VA09]. The erratum below was incorporated into the latter paper.

**Page 11.** The surfaces of Theorem 1.5.4 are not smooth, and hence they are not del Pezzo surfaces. The conclusion of the theorem, however, still holds, as does its proof. I discovered this problem while trying to address a suggestion of Brendan Hassett: to classify all isotrivial rational elliptic surfaces (with section) that give rise to del Pezzo surfaces of degree 1. The answer to this question is both somewhat surprising and beautiful: they correspond precisely to the surfaces of Theorem 1.5.3; see [VA09, Proposition 3.1]. For this reason, when I turned Chapter 3 of the thesis into [VA09], I decided to recast the results in terms of isotrivial rational elliptic surfaces. See §§1–3 of [VA09] for more details.

## REFERENCES

- [VA08] A. Várilly-Alvarado, *Weak approximation on del Pezzo surfaces of degree 1*, Adv. Math. **219** (2008), no. 6, 2123–2145. ↑(document)
- [VA09] ———, *Density of rational points on isotrivial rational elliptic surfaces* (2009). Submitted. ↑(document)