

ERRATUM to the paper

Mild Parameterization and the Rational Points of a Pfaff Curve

by

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The first assertion in Remark 4.3.1 of [1] is incorrect: A preprint of Yomdin [2] demonstrates that it is not possible to parameterize algebraic curves by analytic functions with the uniformity that is asserted in 4.3.1.

The second assertion of Remark 4.3.1, drawing a diophantine consequence of the first assertion for the density of rational points on an algebraic curve, therefore stands unsubstantiated. The abovementioned paper of Yomdin shows how to obtain uniform analytic parameterizations of semi-algebraic sets provided that small subsets (in a suitable sense) are permitted to be left out. These techniques may suffice to recover the diophantine statement (with one additional power of $\log H$).

References

- [1] J. Pila, Mild parameterization and the rational points of a pfaff, *Commentarii Mathematicae Universitatis Sancti Pauli* **55** (2006), 1–8.
- [2] Y. Yomdin, Analytic reparametrization of semi-algebraic sets, preprint, July 2006.

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