

ERRATUM TO THE PAPER “INTEGRABLE SYSTEMS AND ALGEBRAIC SURFACES”

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Proposition 3.5 of “Integrable Systems and Algebraic Surfaces” [H] is incorrect. The proposition dealt with a certain family of compact algebraic curves embedded in a complex holomorphically symplectic surface. The symplectic form identifies the normal bundle of the curves with the canonical bundle of the curve, and so two “infinitesimally close” curves in the family intersect in a canonical divisor. The proposition purported to show that this was the case for any actual pair of curves in the family. This conclusion of Proposition 3.5, that any two curves S_1, S_0 of the family intersect in a canonical divisor, must be added as a hypothesis to Theorem 1.12. With this modification, the rest of the paper’s conclusions go through.

We note that there are instances in which the conclusions of Proposition 3.5 do hold, for example, when the genus is at least three and the curves are all hyperelliptic.

REFERENCES

[H] J. HURTUBISE, *Integrable systems and algebraic surfaces*, Duke Math. J. **83** (1996), 19–50.

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