Taylorian points of an algebraic curve
and bivariate Hermite interpolation

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Abstract. We introduce and study the notion of Taylorian points of algebraic curves in $\mathbb{C}^2$, which enables us to define intrinsic Taylor interpolation polynomials on curves. These polynomials in turn lead to the construction of a well-behaved Hermitian scheme on curves, of which we give several examples. We show that such Hermitian schemes can be collected to obtain Hermitian bivariate polynomial interpolation schemes.