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Minimal Resultants of Rational Maps

Let K be a non-Archimedean field. The minimal resultant of a rational map $f \in K(z)$ measures how far f is from having potential good reduction over an extension of K . In this talk, we introduce a notion of minimal resultant for rational maps defined over the complex numbers. This allows us to construct a height function on the moduli space \mathcal{M}_d of degree d rational maps over number fields; we will discuss the possibility that this height function is comparable to a Weil height on \mathcal{M}_d .