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Type: **Non spécifié**

Non-Archimedean Lipschitz stratification

I will discuss Lipschitz stratification from a nonarchimedean point of view and thereby show that it exists for definable sets, not necessarily bounded, in any polynomial-bounded o-minimal field structure. Unlike the previous approaches in the literature, our method bypasses resolution of singularities and Weierstrass preparation altogether; it transfers the situation to a nonarchimedean model, where the failure of certain “quantitative estimates” are sharpened into valuation-theoretic inequalities and the desired stratification follows, *reductio ad absurdum*, from a construction that realizes these inequalities. (Joint work with Immanuel Halupczok)

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