

*Jean-Morlet Chair - Conference*  
Arithmetic Statistics - Statistiques arithmétiques

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Title: *Rational points on del Pezzo surfaces of low degree*

Abstract: Manin's conjecture gives a prediction for the number of rational points of bounded height on del Pezzo surfaces. However, when the degree of the surface is small, the conjecture remains far beyond the reach of current techniques. When the degree is 3, Heath-Brown has provided the sharpest general upper bounds conditionally on a conjecture about the growth of the rank of elliptic curves. In joint work with Hochfilzer, we prove the analogue of Heath-Brown's result over function fields unconditionally and generalise it to del Pezzo surfaces of smaller degree.