

Analysis Seminar

Title:	Postcritically finite endomorphisms of projective spaces
Speaker:	Thomas Gauthier (Université Paris Saclay)
Date:	Tue 15th October 2024 at 3:00PM
Location:	E0.32 (beside Pi restaurant)

Abstract: An endomorphism of the projective space P^k of dimensionkispostcritically finite if its critical periodic under iteration of the map f, i.e. if there are integers n > m0 such that $f^n(C(f))$ is included in f^m periodic points lying in the critical set of a general regular polynomial endomorphism of the affine plane.

In this talk I will start with presenting a motivation: the distribution of periodic points of a given endomorphism. Then I will discuss what happens in families of rational maps of the Riemann sphere. If we have time, I will finish with a sketch of the strategy of the proof of the non-Zariski density of such parameters in the space of endomorphisms of P^k , k2.

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