The Oliver Club

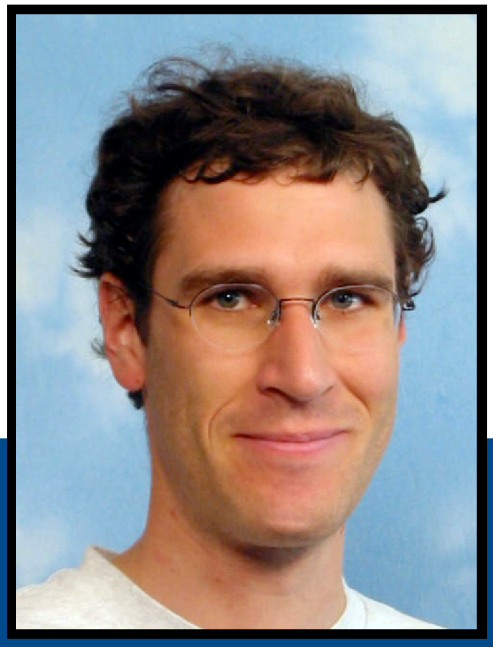
www.math.cornell.edu/~oliver/

Insanely Twisted Rabbits

A construction due to Nekrashevych associates a finitely generated group with any post-critically finite dytamical system; in particular with any map from the family $z \mapsto z^2 + c$.

I will explain how this construction can be used to answer an old open question by Douady and Hubbard, connected to combinatorial equivalence of quadratic maps. The proof will be done mainly through pictures.

I will then discuss visualizations of "matings" of polynomials (combinations of their dynamics) through the same method.



Laurent Bartholdi

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Refreshments will be served at 3:55 PM in the Mathematics Department lounge (532 Malott Hall).

Tuesday, October 2, 2007
at 4:25 PM in 406 Malott Hall