

Lattès maps and bifurcations

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In complex dynamics, the Lattès maps – the holomorphic maps on P^1 that are quotients of maps on elliptic curves – are considered rather boring. We understand their dynamics completely, and they are stable in families. But viewed arithmetically, there are still many unanswered questions. I'll describe one of these questions and how it has led to some interesting complex-dynamical questions about other families of maps on P^1 . This is a joint project with Myrto Mavraki.