WANDERING TRIANGLES FROM THE POINT OF VIEW OF PERTURBATIONS OF POSTCRITICALLY FINITE MAPS

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Thurston proved the "No Wandering Triangle Theorem": for a quadratic polynomial whose Julia set is a dendrite, every branching point is either precritical or preperiodic. Blokh and Oversteegen proved that this result does not extend to higher degrees using laminations. In this talk we approach the existence of wandering triangles for cubic polynomials from the point of view of perturbations of postcritically finite maps. We will present an iterative method which starts from an "admissible" postcritically finite cubic polynomial and converges to a map with wandering triangles. This method helps us understanding the process under which wandering non-precritical branch points appear.