

Introduction to holomorphic dynamics

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Holomorphic dynamics, i.e. the iteration of holomorphic functions, is an active field of dynamical systems that is easy to access, but it has deep and beautiful results and many connections to other fields of mathematics. We present several aspects of the fields, such as the theory of the Mandelbrot set, the dynamics of Newton's method, and connections to Teichmüller theory/Thurston theory.