

A survey of dynamics for functions in the Eremenko-Lyubich class

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The Eremenko-Lyubich class is a large family of transcendental entire functions, with properties which enable a particularly detailed study of their dynamics. In these talks we begin by considering a little of the history of research into this class, and study the foundational properties of these function. Next we review a selection of the impressive and elegant results in this field, giving brief outlines of the methods of proof used. Finally we consider techniques for constructing functions in this class, and some of the remarkable properties which can be exhibited.