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Abstracts of Short Communications and Posters

Section:

9. Ordinary Differential Equations and Dynamical Systems

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On iterated exponential maps

Holomorphic dynamics has been a success story with the last 20 years. Best understood is the iteration theory for polynomials, in particular for those with a single critical point. We will discuss attempts to carry theory and results over to the family of iterated exponential maps $z \mapsto \lambda e^z$. This yields a description of parameter space similar to Mandelbrot and Multibrot sets, but with significant differences.