

## **Renormalization in dynamics**

W. de Melo (IMPA), IMPA.

Abstract: We discuss the dynamics of the renormalization operator in the space of unimodal maps and its impact on the understanding of one dimensional dynamical systems. At the end we will describe the recent joint work with V.V.M.s Chandramouli, M. Martens and C.P. Tresser where we prove the Feigenbaum fixed point is no longer hyperbolic in the space of  $C^2$  maps.