

CONTRACTIVE DYNAMICS IN ITERATED FUNCTION SYSTEMS

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Abstract: I'll discuss iterated function systems generated by finitely many diffeomorphisms on compact manifolds. The focus will be on the effect that different orbits converge to each other. I'll discuss how the constructions can be used for the study of invariant measures of certain partially hyperbolic dynamical systems. In the same vein I will treat iterated functions systems generated by finitely many logistic maps on the interval.