

ON TYPICAL PROPERTIES OF LEBESGUE MEASURE PRESERVING MAPS IN DIMENSION ONE

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In this talk I will discuss selected properties of generic continuous maps of the interval and circle which preserve the Lebesgue measure. I will focus on a few natural properties such as entropy, structure of periodic points, mixing properties, shadowing properties, etc. I will also highlight properties of generic maps compared to other possible dynamical behaviors within maps preserving Lebesgue measure. If time permits, I will present consequences of obtained results for interval maps (not necessarily preserving Lebesgue measure) and two-dimensional dynamics.

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