

Continuity of the topological entropy for interval maps with holes

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In this talk I will discuss recent work with H.H.Rugh on the regularity of the topological entropy of interval maps with holes as a function of hole position and size. More precisely, I will show that the topological entropy is Hölder continuous with the Hölder exponent itself depending on the topological entropy and expansion rates of the map. Examples and counterexamples with numerics will illustrate the result.