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# Non trivial limit distributions for systems with holes

Dalia Terhesiu\*<sup>1</sup>

<sup>1</sup>Faculty of Mathematics – Oskar-Morgenstern-Platz 1 1090 Wien, Austria, Austria

## Abstract

Recent work by M. Demers and B. Fernandez shows that the pushforward measure of open interval maps with indifferent fixed points at the origin converges to the point mass supported at the origin; in this context, an 'open' interval intermitent map is a map with a 'non-small' hole (roughly, a cylinder) that does not contain any neighborhood of the origin. In work in progress with R. Zweimueller, we study the existence of a non trivial limit distribution under a different normalization of the pushforward transfer operator (or some type of average) that could be eventually used in the study of statistical properties of the open system.

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\*Speaker