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Some results on distributionally chaotic points

(joint work with Francisco Balibrea)

The distributionally chaotic point (DC point for short), is introduced in [1] as a point whose arbitrarily small neighbourhood contains an uncountable distributionally chaotic set, which is bounded by a special envelope. In this talk we extend the result from [1] and we show, that for continuous interval maps, positive topological entropy implies existence of uncountably many DC points. Also we show that this result cannot be extended to higher class of maps, particularly to continuous triangular maps of the square.

References

[1] Loranty, Anna and Pawlak Ryszard. "On the local aspects of distributional chaos" *Chaos* Jan;29(1):013104 (2019).