

About maximal distance minimizers. What is it and why they are so good?*

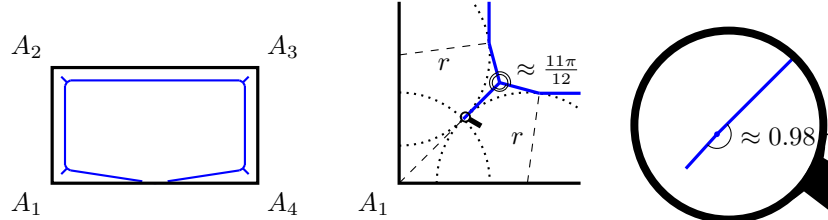
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on joint works with D. Cherkashin, A. Gordeev and others

Consider a compact $M \subset \mathbb{R}^d$ and $l > 0$. A maximal distance minimizer problem is to find a connected compact set Σ of the length (one-dimensional Hausdorff measure \mathcal{H}) at most l that minimizes

$$\max_{y \in M} \text{dist}(y, \Sigma),$$

where dist stands for the Euclidean distance. We give a survey on the results on the maximal distance minimizers: about the explicit examples and regularity of its local behaviour.



*and how to expel rats from Paris