

Self-similarity in the non-matching parameter set for a family of piecewise continuous linear maps

HENK BRUIN

(in collaboration with Carlo Carminati (University of Pisa))

Faculty of Mathematics, University of Vienna, Vienna, Austria

This talk is about the parameter space of a family of piecewise linear maps in regard to the property of “matching”. This means that at some iterate, the left and right limit of the discontinuity point merge again. The prevalence of this phenomenon is observed only under specific number-theoretic conditions. I want to present new results regarding the self-similarity of the set of non-matching parameters. This has distant relations to the renormalization structure of the logistic family. conditions.