Workshop on Applications of Topology in Mathematics and Computer Science

ABSTRACTS

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p-adic differrence equations and its applications

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Abstract

In the present talk we study stability of recurrence equations (which in particular case contain dynamics of rational functions) generated by contractive functions defined on p-adic field.

It will be also discussed reverse recurrence equations which have application in the study of p-adic Gibbs measures. Note that our results also provide the existence of unique solutions of nonlinear functional equations as well.