

On the dynamics of minimal homeomorphisms of T^2

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Resumo/Abstract:

In this talk we will discuss some recent rigidity results about minimal 2-torus homeomorphisms which are isotopic to the identity. Minimal rotations are archetypal examples of such systems. However, it is well-known that there exist minimal diffeomorphisms on T^2 exhibiting very rich and complicated dynamics which are very far away from those of rigid rotations. In fact, it has been recently shown that there exist minimal diffeomorphisms which do not even have a well-defined rotation vector. We will show that such systems are not as "wild" as it was originally thought and in fact, they exhibit a certain form of rigidity.