
ARTURO RODRIGUEZ FANLO, University of Oxford

On metric approximate subgroups

In 2011, using model theory, Hrushovski found a connexion between finite approximate subgroups and Lie groups. This result, known as the Lie model Theorem, was the starting point used to finally give a complete classification of finite approximate subgroups by Breuillard, Green and Tao. In this talk we will see a generalization of the Lie model Theorem to metric approximate subgroups, where small thickenings are also allowed.