

# VC density in NIP theories

Dugald Macpherson

## **Abstract**

If a family of subsets of a set has finite Vapnik-Chervonenkis dimension, then there is a further invariant associated to the family, its VC density. I will describe joint work with Aschenbrenner, Dolich, Haskell and Starchenko on VC density of uniformly definable families of sets in NIP theories, focussing particularly on weakly o-minimal theories and theories of valued fields.