

Groups in nonstandard compact complex manifolds

Rahim Moosa

(U. Waterloo)

A compact complex manifold is viewed as a first-order structure in the language where all analytic subsets of the cartesian powers are named. Anand Pillay and Thomas Scanlon have characterised all strongly minimal groups definable in such a structure as being either a simple complex torus or the additive/multiplicative group of the complex field. I will discuss joint work with Matthias Aschenbrenner and Thomas Scanlon in which we give a uniform version of this result thereby characterising strongly minimal groups in elementary extensions of compact complex spaces.