

# TAME TOPOLOGY AND COMPLEX ANALYTIC GEOMETRY

**Sergei Starchenko**

University of Notre Dame, USA

sstarche@nd.edu

In early 1980's logicians L. van den Dries, A. Pillay and C. Steinhorn introduced o-minimal structures that can be viewed as a Model Theoretic solution to Grothendieck's program of developing tame topology.

In this talk we start with a brief discussion of Grothendieck's idea of tame topology. As examples we consider semi-algebraic and sub-analytic geometries. We will also demonstrate as the tameness of sub-analytic sets can be used in the context of Complex Analytic Geometry.

*Joint work with Y. Peterzil.*