

Mathematical Colloquia

Monday, 09 May 2022

17:15 h, lecture room B6 (ExWi)

Prof. Dr. Rafael Andrist, American University of Beirut

Tame sets in homogeneous spaces

Abstract: The complex-Euclidean spaces of dimension at least 2 have a very rich group of holomorphic automorphisms. In particular, we can find a holomorphic automorphism whose image is prescribed for finitely many points. Prescribing images of holomorphic automorphisms for infinite discrete sets only works well for the class of so-called tame sets.

Using an appropriate generalization of tame sets, we prove the existence of tame sets in affine homogeneous spaces of complex-linear algebraic groups.

Joint work with Riccardo Ugolini (Ruhr-Universität Bochum)