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Mathematical Colloquia

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Monday, 14 May 2018

17:15 h, Lecture Room B 78

Dr. Rafael Andrist, University of Wuppertal

Wild and tame

Abstract:

The complex-Euclidean space of dimension at least two has a very rich group of holomorphic automorphisms, in particular one can find holomorphic automorphisms with prescribed values in finitely many points. However, for infinite discrete sets, the situation is different, as observed by Rosay and Rudin in 1988: On so-called tame infinite sets, it is possible to prescribe (tame) values, but not on so-called wild sets. While the original definition depends on coordinates, we give a coordinate-free description that extends to arbitrary complex manifolds, and investigate the interesting properties of such manifolds that contain both wild and tame sets.