

Universität Konstanz

Fachbereich Mathematik und Statistik Schwerpunkt Reelle Geometrie und Algebra

Einladung

Im Oberseminar Modelltheorie hält

Vincent Grandjean

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am Montag, 27.02.2017, einen Vortrag zum Thema:

Mostowski's Proof of the non oscillation conjecture in dimension 3

Der Vortrag findet um **15:15 Uhr** in **F426** statt. Alle Interessenten sind herzlich eingeladen.

Abstract: Let F be the germ of a real analytic function at the origin O of Euclidean 3-space. Assume the origin O is a critical point of F. If C is any gradient trajectory of F accumulating at O, it was shown by Kurdyka, Mostowski and Parusinski that the limit of secants at O along C exists (this claim was known as Thom's Gradient Conjecture). A related conjecture, stated independently by Moussu and Kurdyka around 1995, is that such a gradient trajectory would not oscillate at O. Non-oscillation at 0 means the following: given the germ at O of any semi-analytic set S, the trajectory C must either never intersect S close to O, or being contained in S once close enough to O. Mostowski has a proof of the non-oscillation conjecture in dimension three. In the talk I will present some ingredients and steps of Mostowski's proof.

Sebastian Gruler Koordinator Oberseminar