



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Seminar in Geometry and Topology

Room 261 ,Ziskind Building
on Thursday, Dec 18, 2014
at 14:00

PLEASE NOTE UNUSUAL DAY AND TIME

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Lipschitz contact equivalence of functions in two variables

Abstract:

We consider germs at the origin in \mathbb{R}^2 of continuous functions definable in a polynomially bounded o-minimal structure (e.g., semialgebraic or subanalytic). We construct a complete invariant of an equivalence class of such functions with respect to Lipschitz contact equivalence. A similar construction produces a complete bi-Lipschitz invariant for a germ of a real definable two-dimensional surface in \mathbb{R}^n . This is joint work with L. Birbrair and A. Fernandes (University of Ceara, Fortaleza, Brazil)