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Abstracts of Plenary and Invited Lectures

Section:

1. Logic

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O-minimality

The study of 0-minimal structures, also known as geometric categories, is a branch of model theory but it has potential geometrical interest. The aim of the pure theory, which I shall review briefly, is to generalise many of hereditary, geometrical and finiteness properties enjoyed by the category of subanalytic sets and maps (eg Whitney stratification, triangulation, Lojasevic inequality) to a general axiomatic setting. The second half of the talk will focus on examples. In particular I shall indicate why (real) functions satisfying Pfaffian differential equations live in O-minimal structures.