

Open Covers of Open Definable Subsets in o-Minimal Structures

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O-minimal structures were defined in the eighties as a natural generalization of real closed fields. One of the main results concerning definable sets in such structures is the theorem about cellular decomposition according to which every definable set is the disjoint union of finitely many sets having a particularly simple structure called cells. In the talk we shall outline the idea of the proof of the theorem stating that any open definable set in a o-minimal structure is the union of finitely many (not necessarily disjoint) cells.