

Definable sets and ordered structures, part I

Christopher Shaw

George Washington University Logic Seminar, February 3, 2010

This talk is intended to be accessible to non-model theorists. Beginning with the definitions, we explore the concept of definability in the model theoretic sense, and in particular discuss why describing the definable sets of a model is an essential question. Included will be a discussion of the usual structures on the complex, real, and rational fields. We then restrict our view to the ordered structures and explore what happens when we enrich the language, with a particular focus on o-minimality.

Definable sets and ordered structures, part II

Christopher Shaw

George Washington University Logic Seminar, March 10, 2010

Continuing with the discussion of ordered structures, we look at various weakenings of o-minimality, and explore pathologies that occur in these cases. Included will be a primer on definable Skolem functions.