

Games, models, and generalized Baire spaces

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I will review three games of logic: the semantic game, the model existence game, and the Ehrenfeucht-Fraïssé game. I will indicate how the three games are related to each other and how they can be generalized from first order logic to infinitary logic. Finally I will discuss transfinite versions of the games and the use of such games to investigate uncountable models. This will lead me to so-called generalized Baire spaces and their topological properties.