

DESCRIPTIVE ASPECTS OF LARGE CARDINALS BEYOND HOD

PHILIPP LÜCKE

ABSTRACT. Recent joint work with Juan Aguilera (Vienna) and Joan Bagaria (Barcelona) introduced the notions of exacting and ultraexacting cardinals as the first candidates for natural large cardinal axioms that imply the existence of sets that are not ordinal-definable. In my talk, I will begin with a brief introduction to these large cardinal notions and then focus on results that show that analogs of classical results on the behavior of definable subsets of the reals numbers in the presence of large cardinals hold for ordinal-definable subsets of the generalized Baire space of ultraexacting cardinals.