

1077-03-159

Dima Sinapova* (dsinapov@math.uci.edu), University of California at Irvine, Department of Mathematics, 440C Rowland Hall, Irvine, CA 92697. *Prikry Type Forcings and Singular Combinatorics.*

Cardinal arithmetic is of primary importance in set theory. We will discuss relative consistency results about singular cardinal arithmetic in the context of forcing and large cardinals. We will focus on the relationship between the Singular Cardinal Hypothesis, Jensen's square principle, scales, and the tree property. In particular, we will explore constructions involving Prikry type forcings to obtain consistency results. (Received September 14, 2011)