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Dima S Sinapova* (dsinapov@math.uci.edu), University of California Irvine, Department of Mathematics, Irvine, CA 92697. *Scales, the Singular Cardinal Hypothesis, and the tree property.*

We will discuss relative consistency results about singular cardinal arithmetic in the context of forcing and large cardinals. In particular, we will explore the relationship between the Singular Cardinal Hypothesis, Jensen's square principle, scales, and the tree property. (Received August 16, 2010)