1023-05-1711 **Isaiah P. Lankham*** (issy@math.ucdavis.edu), Department of Mathematics, University of California, Davis, One Shields Avenue, Davis, CA 95616-8633, and **Alexander K. Woo** (awoo@math.ucdavis.edu), Department of Mathematics, University of California, Davis, One Shields Avenue, Davis, CA 95616-8633. *Interval Avoidance in the Symmetric Group.*

The study of combinatorial patterns and especially of their avoidance in permutations continues to gain ever increasing popularity. During the past twenty years, the classical definition of pattern avoidance has also accumulated many generalizations, each of which provides a powerful and flexible language for characterizing various families of restricted sets of permutations.

In this talk, we describe a recent generalization called *interval pattern avoidance*, which is motivated by the study of various properties of Schubert varieties. Based upon the embedding of intervals under the (strong) Bruhat order, interval pattern avoidance includes classical pattern avoidance as a special case and can be described entirely through a geometric algorithm. We will give this geometric formulation and discuss enumerative results for sets of permutations restricted by interval pattern avoidance, as time allows. (Received September 26, 2006)