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### The Combinatorics of Lopsided Sets

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#### Abstract for the Combinatorics Seminar 2007 May 1

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Given a collection  $L$  of closed orthants in  $d$ -dimensional Euclidean space, we will look at convex sets that intersect the closed orthants in  $L$ , while avoiding those not in  $L$ . We will explore examples and a combinatorial condition for such an  $L$  known as 'lopsidedness' before finally relating the concept to the theory of oriented matroids.

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