

COMBINATORICS  
SEMINAR

*Symmetric chain decompositions of quotients of partially  
ordered sets*

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**Abstract:** Given a subgroup  $G$  of the automorphism group of a partially ordered set  $P$ , the quotient  $P/G$  has as its elements the orbits in  $P$  under  $G$  with ordering induced by that of  $P$ . Canfield and Mason have suggested that for the Boolean lattice of all subsets of a finite set and any subgroup of its automorphism group, these quotients are symmetric chain orders. With Jeremy McKibben-Sanders and Kyle Thayer, we have shown this to be true in some special cases.

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MATHEMATICS AND COMPUTER SCIENCE  
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