

University of Delaware  
Discrete Mathematics Seminar

**On the multiplicative structure of an additively shifted product  
set**

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Tuesday, September 6, 2011  
Ewing Hall 336 3.45-4.45pm

We consider the multiplicative structure of sets of the form  $AA+1$ , where  $A$  is a large, finite set of natural numbers. In particular, we show that the additively shifted product set  $AA+1$  cannot be largely represented by a non-trivial generalized geometric progression of comparable length.