SUMO Symposium  
Tuesday, October 16th  
6:30-7:30pm, room 383N  
(Snacks Provided)  

When Almost All Generalized Sumsets Are Difference Dominated  
Virginia Hogan  

ABSTRACT:  
We expect a generic finite set of integers $A$ to have a larger difference set (the set of all differences of elements in $A$) than sumset (the set of all sums) because addition is commutative and subtraction is not. In 2009, Hegarty and Miller proved that if elements of $A$ are chosen independently with probability $p(N)$ tending to 0, then almost surely $A$ has a larger difference set. We generalize this to arbitrary combinations of sums and differences.

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