SUMO Symposium

Tuesday, October 16th

6:30-7:30pm, room 383N

(Snacks Provided)

When Almost All Generalized Sumsets Are Difference Dominated

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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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