

# Shattering random graphs

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The shattering number of a graph  $G$  of size  $n$  is the cardinality of the smallest set of vertices  $S$  such that after removal of  $S$  from  $G$ , all connected components are of size  $o(n)$ . Variants of this parameter were studied for general and random graphs. In the talk we will present improved bounds, new extremal cases and a novel algorithm for efficiently finding a roughly optimal shattering set for some random graphs.

Based on joint works with Nicole Balashov, Reuven Cohen and Michael Krivelevich.