DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
ODENSE UNIVERSITY

# COMPUTER SCIENCE COLLOQUIUM

## Set-Pair Method in Extremal Set Theory

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**The Seminar Room**

**Abstract:** Let $S = \{(A_i, B_i) | 1 \leq i \leq m\}$ be a set system such that $|A_i| = a$, $|B_i| = b$ and, for all $i, j$, $A_i$ and $B_j$ are disjoint if and only if $i = j$. B. Bolobas proved that the size of $S$ is at most $\binom{a+b}{b}$. We will discuss applications of this result and its generalizations to extremal set theory.

Gregory Gutin