QUICK ADVERTISEMENT

Riordan-W. (2012+)

Janson's Inequality holds for general increasing events

- Basic Idea: $\mathbb{P}(X \leq \mathbb{E}X t)$ is exponentially small
 - Underlying product space
 - $X = \sum_i \mathbf{1}_{\{A_i\}}$

Janson's Inequality (1990)

 A_i increasing events of special form

Our Result (simplified)

A_i arbitrary increasing events