

## **Abstract**

Oberwolfach Workshop:

### **Combinatorics, Probability and Computing**

Dates:

**24 - 30 April 2022** (Code: 2217)

Organizers:

**Michael Krivelevich, Tel Aviv**

**Robert Morris, Rio de Janeiro**

**Oliver Riordan, Oxford**

**Angelika Steger, Zürich**

The main theme of this workshop will be the use of probabilistic methods in combinatorics and related areas. Although these methods have been around for decades, the area is developing rapidly, the tools are becoming more sophisticated and powerful, and there have been a number of significant breakthroughs in recent years. Much of the focus will be on classical areas of combinatorics, such as Ramsey theory, extremal graph theory, and random graphs, but we also emphasize connections with (and applications to) other areas of mathematics, such as percolation, combinatorial number theory, statistical physics, theoretical computer science, and discrete analysis.