

Abstract

Oberwolfach Workshop:

Graph Theory

Dates:

6 Jan - 12 Jan 2019 (Code: 1902)

Organizers:

Jim Geelen, Waterloo

Daniel Kral, Warwick

Alex Scott, Oxford

The 5-day Graph Theory Workshop continues a series of regularly held Oberwolfach meetings on graph theory (the last two held in 2013 and 2016). Graph theory is a rapidly evolving area of mathematics with many applications in computer science, statistical physics and mathematical optimization, and many problems studied in graph theory are motivated by such applications. In recent years, graph theory has seen the increasing importance of methods from other parts of mathematics and the development of deep theories. The aim of the workshop is to update the graph theory community on some of the major recent developments. The workshop will have three central themes, each of which has seen striking recent progress: the structure of graphs with forbidden subgraphs, graph minor theory, and applications of the entropy compression method.