Mücksch, Paul

Supersolvable simplicial arrangements

Simplicial arrangements are natural geometric objects but their classification still remains an open problem. A further important class are the supersolvable arrangements which possess nice algebraic, geometric and combinatorial properties. Inspired by M. Cuntz and I. Heckenberger's recent work and the resulting classification of crystallographic arrangements (which constitute a large subset of the known simplicial arrangements) we introduce Coxeter graphs for simplicial arrangements. Using this tool we can give a complete classification of supersolvable simplicial arrangements. This is partly joint work with M. Cuntz.