
MARK MIXER, Northeastern University, Boston, MA

Transitivity of Graphs Associated with Highly Symmetric Polytopes

An abstract polytope \mathcal{P} is a partially ordered set of faces with some determining properties. Associated with this partial order are many graphs, including the comparability graph and the Hasse diagram for \mathcal{P} . In this talk, we explore the relationship between automorphisms of subgraphs of these two graphs and automorphisms of \mathcal{P} itself.