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Title: Connectivity of chamber graphs of finite buildings

Abstract: The chamber graph $G(\Delta)$ of a thick finite building Δ , whose edges are the pairs of adjacent chambers in Δ , is known to be q -regular for a certain number $q = q(\Delta)$. We show that $G(\Delta)$ is q -connected in the sense of graph theory. Similar results hold for chamber graphs of order complexes of geometric lattices.

This is joint work with Anders Björner.