

Automorphisms and Opposition in Spherical Buildings

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(Joint work with Hendrik Van Maldeghem, B. Temmermans and M. Victoor)

Abstract

The geometry of elements fixed by an automorphism of a spherical building is a rich and well-studied object, intimately connected to the theory of Galois descent in buildings. In recent years, a complementary theory has emerged investigating the geometry of elements mapped onto opposite elements by a given automorphism. In this talk we will give an overview of this theory. This work is all joint with Hendrik Van Maldeghem (and some is joint also with B. Temmermans and M. Victoor).

References