

Title: On fusion control in FC type Artin-Tits groups

Abstract: We consider Artin-Tits groups of FC type and a question related to fusion control. Artin-Tits groups of spherical type and Right-angled Artin-Tits groups are of FC type. An important tool in the study of FC type Artin group is the existence of particular transversals of standard parabolic subgroups. We will prove that the transversals are compatible with intersection with standard parabolic subgroups. As a consequence, we will deduce a result related to the fusion control in FC type Artin-Tits groups.