



STRONG REALITY AND TOTAL ORTHOGONALITY OF SPECIAL 2-GROUPS

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A group G is said to be real if every element of G belongs to conjugacy class of its inverse. Strongly real groups and totally orthogonal groups are two important subclasses of real groups. We give examples of groups which are in one subclass but not the other. All known such examples lie in the class of special 2-groups. The theory of quadratic forms over the field of characteristic 2 is used to study the properties of special 2-groups.

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