

Abstract

Classification of doubly resolvable designs

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A method for classification of doubly resolvable designs is developed. The main part of the method is the orthogonal resolution existence test. It is applied on partial solutions of the resolutions of the designs which we consider. Two constructions are implemented for the test. Using this method a classification of doubly resolvable designs with small parameters is obtained. The correctness of the computational results is checked in several ways.