
MR1330892 (95m:05035) 05B07**Coker, Gary D.; Gardner, Robert B. [Gardner, Robert Bentley] (1-ETNS)****Some rotational automorphisms of Mendelsohn triple and quadruple systems.****(English summary)***Utilitas Math.* **47** (1995), 117–127.

Summary: “A Mendelsohn design of order v with block size n is said to be k -rotational if it admits an automorphism consisting of a fixed point and k cycles each of length $(v - 1)/k$. It is said to be k -near-rotational if it admits an automorphism consisting of w fixed points and k cycles each of length $(v - w)/k$ where w is the order of the smallest nontrivial Mendelsohn design with block size n . A Mendelsohn triple system is k -transrotational if it admits an automorphism consisting of a fixed point, a transposition and k cycles each of length $(v - 3)/k$. The question of existence is addressed for k -transrotational and k -near-rotational Mendelsohn triple systems and for k -rotational and k -near-rotational Mendelsohn quadruple systems.”

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