

# The Orthomorphism Graph $\mathcal{L}_3(q)$

Anthony B. Evans

Department of Mathematics and Statistics  
Wright State University  
Dayton, Ohio, U.S.A.

anthony.evans@wright.edu

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## Abstract

Orthomorphisms of groups and pairwise orthogonal orthomorphisms have been used in several constructions of combinatorial designs, in particular in the construction of mutually orthogonal sets of latin squares based on groups. In this paper we will use difference equations to construct orthomorphisms in  $\mathcal{L}_3(q)$ , an orthomorphism graph of  $GF(q)^+ \times GF(3)^+$ , and to establish lower bounds for the number of pairwise orthogonal orthomorphisms in  $\mathcal{L}_3(q)$ .

**Keywords:** latin squares; orthomorphisms; MOLS

## 1 Introduction

For  $G$  a finite abelian group, a mapping  $\theta: G \rightarrow G$  is an *orthomorphism* of  $G$  if the mappings  $x \mapsto \theta(x)$  and  $x \mapsto \theta(x) - x$  are both bijections. Two mappings  $\theta, \phi: G \rightarrow G$  are said to be *orthogonal* if the mapping  $x \mapsto \theta(x) - \phi(x)$  is a bijection. An orthomorphism  $\theta$  of  $G$  is *normalized* if  $\theta(0) = 0$ . If  $\theta$  is an orthomorphism of  $G$ , then the mapping  $x \mapsto \theta(x) - \theta(0)$  is a normalized orthomorphism of  $G$ : normalization does not affect orthogonality. We will use  $Orth(G)$  to denote the set of normalized orthomorphisms of  $G$  as well as the graph in which adjacency is orthogonality. Some automorphisms of  $Orth(G)$ , described in [7], are  $H_\alpha$ ,  $\alpha \in Aut(G)$ , defined by  $H_\alpha[\theta] = \alpha\theta\alpha^{-1}$ ;  $T_g$ ,  $g \in G$ , defined by  $T_g[\theta](x) = \theta(x + g) - \theta(g)$ ; and  $R$  defined by  $R[\theta](x) = x + \theta(-x)$ . These automorphisms will prove useful in counting orthomorphisms in Section 4. An *orthomorphism graph* of  $G$  is a subgraph of  $Orth(G)$ . For an orthomorphism graph  $\mathcal{H}$  of a group  $G$  one parameter is of particular interest: the *clique number* of  $\mathcal{H}$ , written  $\omega(\mathcal{H})$ , is the largest possible number of pairwise adjacent vertices of  $\mathcal{H}$ . The reason for interest in this parameter is that from  $r$  pairwise orthogonal orthomorphisms of  $G$  we can construct  $r + 1$  mutually orthogonal latin squares (MOLS) of order  $|G|$ . Several constructions of large sets of *MOLS* arise in this way: see [1] and [11] in the Handbook of Combinatorial Designs [4]. For more on

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