

**Holzmann, W. H.; Kharaghani, H.**

**A computer search for complex Golay sequences.** (English) Zbl 0818.05022  
*Australas. J. Comb.* 10, 251-258 (1994).

A complex Golay sequence (CGS) of length  $n$  is a pair  $a_1 a_2 \dots a_n, b_1 b_2 \dots b_n$  of  $(\pm 1, \pm i)$ -sequences which have zero autocorrelation

$$0 = \sum_{j=1}^k a_j \bar{a}_{n-k+j} + \sum_{j=1}^k b_j \bar{b}_{n-k+j} \quad \text{for } k = 1, 2, \dots, n-1.$$

The authors make computer search for CGS of length up to 13, and list all inequivalent CGS of length up to 13 (each length from 2 to 13 occurs).

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**MSC:**

**05B20** Combinatorial aspects of matrices (incidence, Hadamard, etc.)  
**68R05** Combinatorics in computer science

Cited in **8** Documents

**Keywords:**

complex Golay sequence; zero autocorrelation; computer search