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A construction and bounds of constant composition codes.  (Chinese. English summary)

Summary: A construction of constant composition codes under the Chebyshev distance is given, and its error correcting algorithm and optimization are discussed based on the construction. The bounds under the Chebyshev distance and their improvement are considered. The construction of constant composition codes under the Chebyshev distance and the Hamming distance is researched, and a conclusion about constant composition codes with the Hamming distance four is given.

MSC:
94B60  Other types of codes

Keywords:
constant composition code; Chebyshev distance; Hamming distance; repeated permutation

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