

Further results on covering radii of some codes and their connections

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The covering radius is a basic geometric parameter of a code. It has various applications, including decoding, data compression, testing, write-once memories, and combinatorics in general. There are important connections to arithmetic and geometry over finite fields. In this paper, we survey some of the recent results, provide some new results and explain some aspects of the connections to the arithmetic and geometry over finite fields.

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