SEMINARIO
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Applications of Cartesian codes

Abstract:

A simple way to define an evaluation code is as a linear code that depends on a set of functions and a set of points. The evaluation code is obtained when the functions are evaluated on the points. One of the most classical examples is a Reed-Solomon code. In this talk we will see how evaluation codes can be studied using basic tools of commutative algebra. Then we will focus on a family of evaluation codes known as Cartesian codes. We will study how they are defined and some of its applications to LCD codes, quantum codes, and locally recoverable codes.

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