Seminar
Systems and Control Group - CIDMA

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Departamento de Matemática, Universidade de Aveiro
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A construction of Abelian non-cyclic orbit codes

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Abstract

Given a finite field F_q, a constant dimension code is a set of k-dimensional subspaces of F_q^n. Orbit codes are constant dimension codes which are defined as orbits when the action of a subgroup of the general linear group on the set of all subspaces of F_q^n is considered. In this talk we present a construction of an Abelian non-cyclic orbit code whose minimum subspace distance is maximal.

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