

Departamento de Álgebra, Geometría y Topología (AGT)
Facultad de Ciencias
Universidad de Valladolid

Seminario de Geometría Algebraica y Singularidades (GAS)

Conferencia para el Lunes 15 de febrero de 2010 a las 11:30h.

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Middle East Technical University, Ankara.

Some families of repeated-root cyclic codes.

Resumen:

A cyclic code is called a repeated-root cyclic code if the codeword length and the characteristic of the alphabet are not coprime. Such codes are interesting in some cases. For instance self-dual codes in even characteristic are repeated-root cyclic codes and some families of cyclic codes are optimal.

Recently, the minimum Hamming distance and the ideal structure of certain families of cyclic codes of length np^s and $2np^s$, and in particular, the minimum Hamming distance of all cyclic codes of length p^s and $2p^s$ have been determined.

In this talk, I will give an overview of these results.

Lugar: Departamento de Álgebra, Geometría y Topología.

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Organizador: Santiago Encinas.