SEMINARIO IMAC DE
Estructuras Algebraicas y Teoría de Códigos Correctores de Errores

Conferencia a cargo de
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Generalized Weierstrass semigroups and Poincaré series

ABSTRACT: In this talk we will discuss the structure of the generalized Weierstrass semigroups at several points on a curve X defined over a finite field and the relations of these objects with the Poincaré series associated with the filtration of the ring of functions of X that are regular outside the specified points.

We will present a characterization of the generalized Weierstrass semigroups and the outcomes of it for the associated Riemann-Roch spaces. In particular, this characterization will allow us to show that the corresponding Poincaré series carry sufficient information to describe entirely such semigroups.

This is a joint work with J.J. Moyano-Fernández (UJI) and F. Torres (UNICAMP).

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