



Seminario de Álgebra, Geometría algebraica y Singularidades
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Principal Matrices of a Class of Numerical Semigroups

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In this talk, we explore a specific class of numerical semigroups, $KW(p, q)$, constructed by Kunz and Waldi containing two coprime numbers p, q with p less than q , which we call K-W semigroups. The goal will be to characterize K-W numerical semigroups by their principal matrices. Principal matrices of a numerical semigroup with embedding dimension n are specialized $n \times n$ integer matrices of rank at most $n - 1$ that carry vital information about the semigroup. We present a necessary and sufficient criterion for a matrix to be the principal matrix of a K-W semigroup.

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