SEMINARIO DE GEOMETRÍA ALGEBRAICA

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Restricted volumes of effective divisors

Resumen.

As it is well known, ample divisors display beautiful geometrical, cohomological and numerical properties. At the beginning of this new century it became clear, thanks to the work of Ein, Lazarsfeld, Mustata, Nakamaye, Nakayama, Popa and others, that also the class of big divisors share some of these properties if one is willing to work asymptotically. This initiated the asymptotic study of effective divisors as well. In this talk we will review basic asymptotic invariants associated to effective divisors and study their relationships, obtaining, in this respect, a complete understanding of the canonical divisor also for varieties of intermediate Kodaira dimension. This is a joint work with Gianluca Pacienza, IRMA, Strasbourg