SEMINARIO DE GEOMETRÍA ALGEBRAICA

Martes 9 de mayo de 2006, 15:00, Seminario 238

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Impartirá la conferencia:

On Poincaré series of filtrations on equivariant functions of two variables

Summary. Let a finite group G act on the complex plane $(\mathbb{C}^2, 0)$. We consider multi-index filtrations on the spaces of germs of holomorphic functions of two variables equivariant with respect to 1-dimensional representations of the group G defined by components of a modification of the complex plane $\mathbb{C}^2$ at the origin or by branches of a G-invariant plane curve singularity $(C, 0) \subset (\mathbb{C}^2, 0)$. We give formulae for the Poincaré series of these filtrations. In particular, this gives a new method to obtain the Poincaré series of analogous filtrations on the rings of germs of functions on quotient surface singularities. This is a joint work with A.Campillo and F.Delgado.