

Universidad Complutense de Madrid
Facultad de Ciencias Matemáticas
Departamento de Álgebra

Teléfono: 91 394 45 70, Fax: 91 394 46 62
Correo electrónico: Algebra@mat.ucm.es

SEMINARIO DE GEOMETRÍA ALGEBRAICA

Martes 31 de marzo de 2009, **12:30**, Seminario 238

Sabir Gusein-Zade

Moscow State University

Impartirá la conferencia

Poincare series of collections of plane valuations

Resumen.

In earlier papers with A.Campillo and F.Delgado, there were given formulae for the Poincare series of multi-index filtrations on the ring of germs of functions of two variables defined by collections of valuations corresponding to (reducible) plane curve singularities and by collections of divisorial ones. It was shown that the Poincare series of a collection of divisorial valuations determines the topology of the collection of divisors. In the talk we discuss general collections of valuations on the ring of germs of functions of two variables centered at the origin. We give a formula for the Poincare series of such a collection and a generalization of the statement that the Poincare series determines the topology of the collection.