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SEMINARIO DE GEOMETRÍA ALGEBRAICA

Jueves 8 de mayo de 2014, **13:00**, Seminario 238

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Impartirá la conferencia

An equivariant Poincaré series of filtrations and
monodromy zeta functions

Resumen.

We define a new equivariant (with respect to a finite group G action) version of the Poincaré series of a multi-index filtration as an element of the power series ring $\tilde{A}(G)[[t_1, \dots, t_r]]$ for a certain modification $\tilde{A}(G)$ of the Burnside ring of the group G . We show that, for filtrations on the ring of germs of functions in two variables defined by the curve valuations corresponding to the irreducible components of a plane curve singularity defined by a G -invariant function germ, in the majority of cases this equivariant Poincaré series determines the corresponding equivariant monodromy zeta functions defined earlier by the speaker, I.Luengo and A.Melle. The talk is based on a joint work with A.Campillo and F.Delgado.