

Departamento de Álgebra, Geometría y Topología (AGT)
Facultad de Ciencias
Universidad de Valladolid

Seminario de Geometría Algebraica y Singularidades (GAS)

Conferencia para el Jueves 17 de febrero de 2011 a las 12:00h.

Sabir M. Gusein-Zade. Moscow State University.

Monodromy of dual invertible polynomials.

Resumen:

There exists a generalization of Arnold's strange duality to invertible polynomials in three variables due to W.Ebeling and A.Takahashi. This duality includes the following relation. For some invertible polynomials f the Saito dual of the reduced monodromy zeta function of f coincides with a formal "root" of the reduced monodromy zeta function of its Berglund-Hbsch transpose f^T . Ill describe a geometric interpretation of "roots" of the monodromy zeta function and a generalization of the above relation to all non-degenerate invertible polynomials in three variables and to some polynomials in an arbitrary number of variables in a form including "roots" of the monodromy zeta functions both of f and f^T .

The talk reflects joint results with W.Ebeling.

Lugar: Departamento de Álgebra, Geometría y Topología.

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Organizador: Santiago Encinas.