



Instituto Universitario de Investigación
de Matemáticas
y Aplicaciones
Universidad Zaragoza



Departamento de
Matemáticas
Universidad Zaragoza

Seminario Geometría y Topología

Conferencia

por

Patricio Almirón

Universidad Complutense de Madrid

Título:

“Milnor number vs Tjurina number of isolated hypersurface singularities”

Abstract:

In this talk we will talk about the upper bounds for the quotient between Milnor number and Tjurina number of isolated hypersurface singularities. Our main motivation for this topic is the following question posed by Dimca and Greuel in 2017: is the quotient of Milnor and Tjurina numbers less than $4/3$ for any plane curve singularity? We will present a complete solution to the Dimca and Greuel's question together with its natural extension to singularities in higher dimensions. This generalization will link this topic with an old standing conjecture about the geometric genus posed by Durfee in 1978. We will also provide some new upper bounds for that quotient in higher dimensions.

Fecha: Jueves, 26 de mayo de 2022

Hora: 12:13 horas

Lugar: Seminario D, Edificio de Matemáticas