SEMINARIO DE GEOMETRÍA ALGEBRAICA

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Impartirá la conferencia

Superficies algebraicas reales con muchos puntos dobles solitarios

Summary: How many double points can have a surface of degree d in the projective 3-space? In the complex case, even if the answer is not known as soon as d>6, some constructions due to Chmutov provide surfaces with many double points. In the real case, one has 2 different type of double points, solitary double points (locally given by $x^2 + y^2 + z^2 = 0$) and non solitary double points (locally given by $x^2 + y^2 + z^2 = 0$) and non solitary double points (locally given by $x^2 + y^2 - z^2 = 0$). Isolated double points are much more diffucult to costruct than non solitary double points. In this talk, I will explain how to adapt Chmutov method to construct surfaces with many solitary double points.