INSTITUTUL DE MATEMATICA "SIMION STOILOW" AL ACADEMIEI ROMANE

Seminarul de Geometrie Algebrica

Measuring the complexity of singularities in algebraic geometry and topology

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Abastract: I will discuss two different ways to measure the complexity of singularities of a (globally-defined) complex hypersurface. The first is derived via (Hodge-theoretic) characteristic classes of singular complex algebraic varieties, while the second is provided by the multiplier ideals and jumping coefficients. I will also point out a natural connection between these twopoints of view. (Joint work with Morihiko Saito and Joerg Schuermann.)