CENTRO DE MATEMÁTICA
UNIVERSIDADE DO PORTO

Contact topology of Gorenstein toric isolated singularities

Miguel Abreu

Instituto Superior Técnico, Univ. Lisboa

Abstract. Links of Gorenstein toric isolated singularities are good toric contact manifolds with zero first Chern class. In this talk I will present some results relating contact and singularity invariants in this particular toric context. Namely,

  (i) I will explain why the contact mean Euler characteristic is equal to the Euler characteristic of any crepant toric smooth resolution of the singularity (joint work with Leonardo Macarini).

 (ii) I will discuss applications of contact invariants of Lens spaces that arise as links of Gorenstein cyclic quotient singularities (joint work with Leonardo Macarini and Miguel Moreira).

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