

Algebraic Geometry - Mariusz Koras in memoriam

Warsaw, 28.05.2018 - 01.06.2018



HEEGAARD FLOER HOMOLOGIES AND RATIONAL CUSPIDAL CURVES

MACIEJ BORODZIK

University of Warsaw

ABSTRACT. We find restrictions on semigroups of singular points of rational cuspidal curves in $\mathbb{C}\mathbb{P}^2$, related to the conjecture of Fernandez de Bobadilla, Luengo, Melle-Hernandez and Nemethi. The methods that are used are essentially topological. Generalizations apply for non-rational case. This is a joint work with Chuck Livingston and Matt Hedden.