

# **Towards the Weighted Bounded Negativity Conjecture for rational surfaces**

Francisco Monserrat

Universitat Politècnica de València

Based on joint work with C. Galindo and C. J. Moreno-Ávila

The Bounded Negativity Conjecture predicts that, for any smooth complex projective surface  $X$ , the self-intersection numbers of all reduced and irreducible curves on  $X$  are bounded from below by a constant which depends only on  $X$ . In this talk we will focus on rational surfaces and on a weighted version of this conjecture, showing some results that will provide evidence towards it.