

Studying the Buchweitz Set of Numerical Semigroups

D. Marín-Aragón

Joint work with: S. Eliahou, J.I. García-García, A. Vigneron-Tenorio

Abstract: In this work, we define the Buchweitz set of a given set A as $\{n : |nA| > (2n - 1)(|A| - 1), n \geq 2\}$. We prove that if S is a numerical semigroup, the Buchweitz set of its set of gaps is finite.