

1088-53-50

Luca Fabrizio Di Cerbo* (luca@math.duke.edu), Mathematics Department Duke University, Box 90320, Durham, NC 27708-0320, and **Gabriele Di Cerbo**. *Positivity in Kähler-Einstein theory*.

I will show how some questions motivated by the theory of Kähler-Einstein(KE) metrics with singularities can be solved using classical theorems in the minimal model program. For example, I will characterize the pairs which admit KE metrics with negative scalar curvature and small cone-edge singularities along a simple normal crossing divisor. If time permits, I will describe some applications of these results in complex hyperbolic geometry. (Received January 29, 2013)