1042-52-190   **Marisa Zymonopoulou*** (`marisa@math.missouri.edu`), Dept of Mathematics, Yost Bld, 10900 Euclid Avenue, Cleveland, OH 44106. *The complex Busemann-Petty problem for arbitrary measures.*

ABSTRACT

The complex Busemann-Petty problem asks whether origin symmetric convex bodies in $\mathbb{C}^n$ with smaller central hyperplane sections necessarily have smaller volume. The answer is affirmative if $n \leq 3$ and negative if $n \geq 4$. We show that the answer remains the same if the volume is replaced by an "almost" arbitrary measure. (Received August 18, 2008)