

## Algebraic Geometry Seminar

### *Effective litaka fibrations of varieties of maximal Albanese dimension*

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**Abstract:** Let  $X$  be a variety of maximal Albanese dimension. Chen and Hacon proved that if  $X$  has positive holomorphic Euler-characteristic, then its tricanonical map is birational onto its image; in particular,  $X$  is of general type. When the Euler characteristic is not positive, we use generic vanishing techniques to prove that the tetracanonical map of  $X$  induces the litaka fibration. Moreover, if  $X$  is of general type, then the tricanonical map is already birational. If time permits, I will also construct examples showing that these results are optimal.

This is a joint work with Zhi Jiang and Sofia Tirabassi.

Wednesday, February 29 at 4:00 PM in SEO 427