

***THE NONVANISHING PROBLEM FOR VARIETIES WITH  
NEF FIRST CHERN CLASS***

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**Time: Wed, Apr. 27, 15:00-16:00**

**Venue: Zoom Meeting 840 2712 4061, password: SCMS**

**Abstract:** Let  $X$  be a threefold with mild singularities such that  $c_1(X)$  is nef. In this talk I will present a very recent proof that then the numerical class of  $c_1(X)$  is effective. This result (joint work with Thomas Peternell, Nikolaos Tsakanikas and Zhixin Xie) is the positive curvature counterpart of the famous result of Miyaoka from the 1980s, which showed that  $-c_1(X)$  is effective as soon as it is nef.