

**ON THE ANTI-CANONICAL GEOMETRY OF WEAK
Q-FANO 3-FOLDS, III**

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Time: Wed, Apr. 13, 15:00-16:00

Venue: Tencent Meeting 839 603 441, password: 535575

Abstract: By a terminal weak Q-Fano 3-fold (resp. terminal Q-Fano 3-fold) we mean a normal projective one with at worst terminal singularities on which the anti-canonical divisor is nef and big (resp. ample). For a terminal weak Q-Fano 3-fold X , we show that the m -th anti-canonical map defined by $|-mK_X|$ is birational for all $m \geq 59$. Furthermore, if X is a terminal Q-Fano 3-fold, then the m -th anti-canonical map defined by $|-mK_X|$ is birational for all $m \geq 58$. (This is a joint work with Chen Jiang)