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

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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 $m \geqslant 59$. 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 $m \geqslant 58$. (This is a joint work with Chen Jiang)