

ON EXTREMAL VARIETIES OF GENERAL TYPE

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Time: Wed, Nov. 24, 16:00-17:00 (Beijing)

Venue: Zoom 839 1555 5712, Password: 962388

Abstract: Among varieties of general of fixed dimension, there are some known (or expected) constraints on their birational invariant. It is particular interesting to study those varieties whose invariant achieve optimal values. For example, let d_X be the dimension of image of canonical map. If $d_X=n$, then one has that the canonical volume is greater than or equal to $2(p_g-n)$. If equality holds, then we call X to be a Horikawa variety. In this talk, we are going to describe various geometric properties of Horikawa varieties. If time permits, we will also address some relation with threefold of general type on the Noether line and irregular threefold on the Noether-Severi line.