

GEOMETRY OF CALABI--YAU TYPE CHOW VARIETIES OF LINEAR SUBSPACES IN CUBIC HYPERSURFACES

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Venue: Room 406, SCMS

Abstract:

For any given integer $r \geq 0$, there is a positive integer n depending on r , such that for any very general cubic n -fold, the Chow variety of r -dimensional linear subspaces is a Calabi--Yau type manifold. I will present some aspects of the geometry of these Calabi--Yau manifolds: their dimensions, moduli numbers, decompositions of CH_0 , etc. A main tool is a self rational map of high degree on it. This is a work in progress.