On the birational structure of Calabi–Yau threefolds in ruled Fano manifolds

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Abstract

Calabi–Yau manifolds arise naturally in birational geometry and mirror symmetry. I will describe explicitly the chamber structure of the movable cone for a general complete intersection Calabi–Yau threefold X in certain $(n+4)$-dimensional $\mathbf{P}^n$-ruled Fano manifolds of index $n+1$ and hence verify the Morrison–Kawamata cone conjecture for such X. This is joint work with A. Ito and C.-J. Lai.