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Seminar

Birational geometry of Kaehler 3-folds

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Abstract

One of the main goal in complex geometry is to classify all complex varieties. The approach of birational geometry is to classify varieties up to birational equivalence. This theory works well for smooth projective surfaces, and dates back to the end of 19th century. The Minimal Model Program (MMP) is developed to generalize the surfaces classifications in higher dimensions. In the 1990s, almost everything is settled for projective 3-folds. Recently, Campana-Hoering-Peternell propose MMP for Kaehler 3-folds. In a recent joint work with Das, we prove a conjecture in this theory (log abundance conjecture for Kaehler 3-folds).

In this talk, we will first recall classic MMP for projective varieties. Then we will compare the projective case and the Kaehler case.

Date: 4 March 2019 (Monday)
Time: 10:00am – 11:00am
Venue: Room 219, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin

All are Welcome