

Shihoko Ishii (Tokyo Woman's Christian University)

Title: Singularities in positive characteristic

In the talk I introduce a method "lifting to characteristic 0" which is a kind of the inversion of "modulo p reduction" and show that this procedure preserves some properties of singularities.

As its applications we obtain that if Mustata-Nakamura's conjecture (resp. ACC conjecture) for the affine space holds in characteristic 0, then it holds also in positive characteristic.

I will show some other applications about minimal log discrepancy and log canonical threshold.