

- Research Talk -
Abundance and beyond

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Abstract:

The most important open problem in the MMP in characteristic zero is the existence of good minimal models, and in particular the Abundance conjecture. Beyond this conjecture, one has the Cone conjecture, which predicts, among other things, that every non-uniruled smooth variety has only finitely minimal models up to isomorphism. This also has important incarnations in Calabi-Yau geometry and in hyperkaehler geometry. I will survey what is known about these problems and outline challenges for future research.