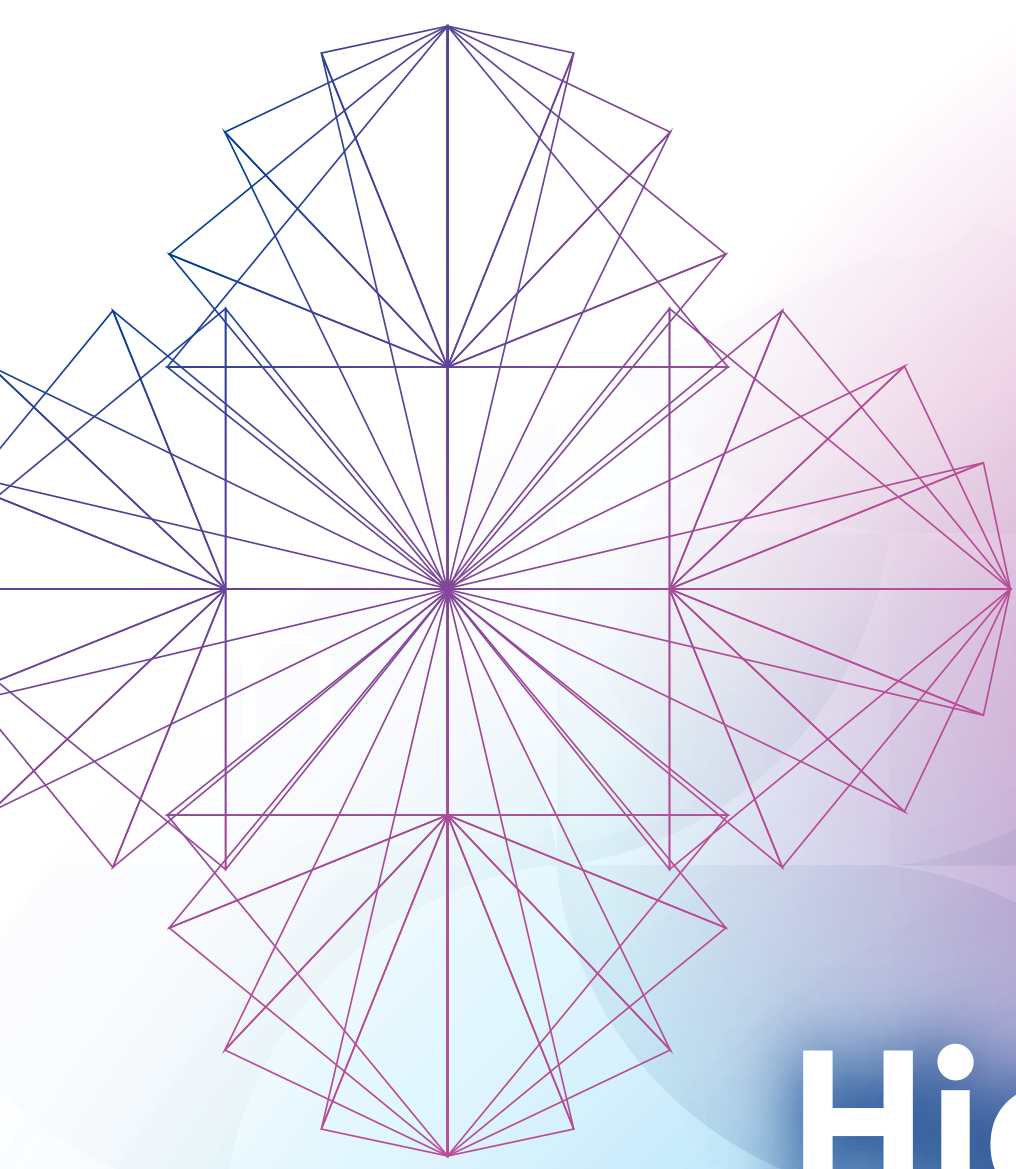


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Higher Dimensional Algebraic Geometry minicourses

2026.4.7-10
9:00-16:30

Time

Cosmology Building, NTU
Room 505

Venue

Speakers

Benjamin Bakker
University of Illinois Chicago

Kristin DeVleming
University of California, San Diego

Hsueh-Yung Lin
National Taiwan University

Chenyang Xu
Princeton University

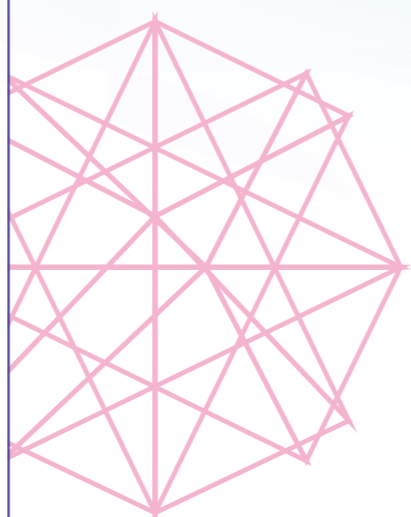
Organizers

Jungkai Chen
National Taiwan University

Yujiro Kawamata
University of Tokyo & NCTS

Mihnea Popa
Harvard University

Chenyang Xu
Princeton University



Introduction & Purposes

Algebraic geometry has long been a very active discipline in mathematics. It is closely intertwined with developments in number theory, differential geometry, mathematical physics, representation theory, and even some branches of real-world applications. During the past three decades, not only has core birational geometry seen significant advances thanks to Birkar-Cascini-Hacon-McKernan and Birkar's work on BAB conjecture, but also there are various new ideas, methods and techniques have emerged, such as derived categories, mirror symmetry, Berkovich spaces, and K-stabilities. Since 2004, NCTS inaugurated the series of workshops "Higher Dimensional Algebraic Geometry" roughly every three years. The first purpose of this workshop series is to bring the key players in algebraic geometry to Taiwan to present their cutting-edge research work. The organizing committee was formed by inviting world-leading algebraic geometers. We have Mihnea Popa (Harvard), Chenyang Xu (Princeton) and Kawamata (Tokyo) in the committee this time. The selection of speakers reflecting the most frontier research topics in algebraic geometry. But also, we would like to promote younger generation and local algebraic geometers to the international stage as well. This series of workshop has gained considerable international reputation thanks to the consistent support of NCTS.

In conjunction with the event HDAG 2026 to be held on April 13-April 17, 2026. We organize several mini-courses in the week before to serve as a bootcamp for younger researchers.

Outline & Descriptions

Date: 4/7(Tue)-4/10(Fri), 2026

We plan to have four lecturers and each one will give a mini-course of 3 lectures. We will arrange the talks on Tuesday, Wednesday, Thursday, and Friday with three lectures each day. The 2026 Higher Dimensional Algebraic Geometry Conference will be held on April 13-17. Please refer to <https://sites.google.com/ncts.ntu.edu.tw/2026hdag> for more information.

Contact

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Course Website



Registration