北京大学
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# Summer School on Birational Geometry of Foliations

The birational geometry of foliations is a rapidly developing subfield of birational geometry that has seen significant progress in recent years. For instance, the introduction of the "adjoint foliated structure" has led to major advances in the minimal model program, boundedness, and moduli theory for foliations. Moreover, a breakthrough has recently been made on the algebraicity criterion of foliations on Kähler varieties. Given these developments, we are organizing this summer school to introduce cutting-edge theories to researchers and students in the field.

This summer school is primarily aimed at researchers who are currently working or planning to work in foliation theory or birational geometry. Postdocs, PhD students, and advanced undergraduates are warmly welcomed. The summer school will begin with preliminary topics such as foliations on surfaces, then systematically cover foliations on threefolds, adjunction formulae, algebraicity, algebraically integrable foliations, locally stable families and foliations, and adjoint foliated structures. Lectures will cover the most recent advanced results and discuss potential future research directions.

## Time and Venue:

**Time:** Monday, **August 18th** to Friday, **August 22nd,** 2025
**Venue:** Wangxuan Lecture Hall, Zhihua Building, School of Mathematical Science, Peking University, No. 5 Yiheyuan Road, Haidian District, Beijing, China

## Speakers:

Jingjun Han (Fudan University)
Jihao Liu (Peking University)
Fanjun Meng (Johns Hopkins University/UCSD)
Wenhao Ou (AMSS)
Calum Spicer (King's College London)
Roberto Svaldi (University of Milan)
Lingyao Xie (UCSD)

## Sponsors:

School of Mathematical Sciences, Peking University
National Key Research and Development Program of China

## Organizers:

Jihao Liu (local), Paolo Cascini, Jingjun Han, Fanjun Meng, Calum Spicer, Roberto Svaldi, Lingyao Xie

## Registration

Please use the link https://www.wjx.top/vm/eKqAHhk.aspx
or scan the QR code on the right. Deadline **July 15th, 2025**.

## Contact

Jihao Liu (liujihao@math.pku.edu.cn), Jingjun Han(hanjingjun@fudan.edu.cn)
Shuai Chen (secretary) (chen_shuai@pku.edu.cn)
Summer school webpage: https://www.math.pku.edu.cn/kxyj/xzky/168546.htm

地址：北京 100871 北京大学智华楼 电话：86-10-62751804
Peking University, Beijing, 100871 Tel：86-10-62751804

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# Summer School Schedule

| | August 18th (Mon) | August 19th (Tue) | August 20th (Wed) | August 21st (Thu) | August 22nd (Fri) |
|---|---|---|---|---|---|
| **8:00-8:50** | Registration | | | | |
| **8:50-9:00** | Opening | | | | |
| **9:00-10:00** | **Lingyao Xie** Foliation on surfaces, I | **Calum Spicer** Foliation adjunction | **Wenhao Ou** Algebraicity, I | **Jingjun Han** Algebraically integrable foliations, I | **Jihao Liu** Adjoint foliated structures, II |
| **10:00-10:30** | **Group Photo** / **Tea break** | **Tea break** | | | |
| **10:30-11:30** | **Lingyao Xie** Foliation on surfaces, II | **Calum Spicer** Foliation on threefolds, I | **Wenhao Ou** Algebraicity, II | **Fanjun Meng** Algebraically integrable foliations, II | **Jihao Liu** Adjoint foliated structures, III |
| **11:30-13:00** | Lunch Break | | Free afternoon (Day 3 concludes) | Lunch Break | **Summer school concludes** |
| **13:00-14:00** | **Roberto Svaldi** Adjoint foliated structures, I | **Roberto Svaldi** Foliation on threefolds,II | | **Fanjun Meng** Locally stable families and foliations | |
| | Day 1 concludes | Day 2 concludes | | Day 4 concludes | |

**All talks in Wangxuan Lecture Hall, Floor 1 of Zhihua Building, Peking University.**

所有的报告都将在北京大学智华楼一楼王选报告厅举行。