

The 1st International Undergraduate Mathematics Summer School

Information Booklet

Practical Information

Note: We use English names for on-campus buildings from a separate campus map in your package. There are no official English translations – so they may differ from some online maps.

Venue: All courses and lectures are in 理教 106 (Natural Science Teaching Bldg. 106). We have also reserved 理教 318 (Natural Science Teaching Bldg. 318) for discussion. The building "理教" (Natural Science Teaching Bldg.) is marked on the map page in this information booklet.

Summer school materials: Please get your summer school materials package at 神州商旅酒店 (hotel for students) – our staff will be there on 7/15. Those staying at 勺园 (Shaoyuan Hotel, for most instructors/speakers), please get your package at the front desk. We will also distribute them at the opening session on 07/16.

Dining: For students not from Peking University, a dining card is enclosed in your package. This card is only accepted at the following places:

- 农园 1 和 2 楼 (Nongyuan Restaurant, 1st and 2nd floor)
- 艺园 1 楼 (YiYuan Restaurant, 1st floor)
- 畅春园 1 楼 (Changchunyuan Restaurant, 1st floor)
- 燕园美食 (Yannan Restaurant)
- 勺园食堂 (Shaoyuan Restaurant)

Hotels (for most speakers and all students):

- 神州商旅酒店 (永丰店) (for students): 丰智东路 5 号
Nearest subway station: 永丰南 (Yongfeng South)
- 勺园 (Shaoyuan Hotel, for most speakers/instructors): On campus
The summer school materials will be available at the front desk when checking in.

Transportation: We recommend public transit (subway) for daily transportation from your hotel to campus. You should get off at 北京大学东门站 (East Gate of Peking University subway station), and take exit A or D. Suggested walking routes from the subway station are marked on the map page of this booklet. We also marked walking routes from the hotels to the subway station.

For students staying at 神舟商旅酒店 (the hotel for all students reserved by us), we will provide shuttle service from the hotel at 7:30am on 07/16 (Monday, the first day of the Summer School). The shuttle service is only available on that single day.

For students staying at 神州商旅酒店 (the hotel for all students reserved by us), the best way to Peking University is to **take subway line 16 at 永丰南 (Yongfeng South) station towards 西苑 and transfer at 西苑 station (Xiyuan Station) to subway line 4 towards 天宫院 or 新宫 (Tiangongyuan or Xingong). On subway line 4 get off at 北京大学东门 (East Gate of Peking University) station.** Attached to this booklet is a map from the hotel to 永丰南 (Yongfeng South) station.

From 勺园 (Shaoyuan hotel, hotel for most instructors/speakers), it is a 10-min walk from the hotel to the 理教 (Natural Science Teaching Bldg.). We outlined a route in the map.

From 燕山大酒店 (Yanshan hotel, for some instructors/speakers), a suggested route is to take subway line 4 from 人民大学 (Renmin University) station and get off at 北京大学东门 (East Gate of Peking University) station. We outlined the location of 人民大学 (Renmin University) Station.

Entering Peking University: In summer, the campus is restricted and allows only a limited number of tourists. Consequently, you need to show your nametag at the university gate to enter. If you need to enter the university **before** getting your nametag (in your material package), we should send a scanned letter to you before your arrival. Please print and show it to the gate guards for your entry.

Academic Information

Courses:

Basic Algebraic Geometry

Instructor: **Prof. Wei-Ping Li**

Symplectic Geometry

Instructor: **Prof. Bo Dai** and **Prof. Tian-Jun Li**

Harmonic Analysis

Instructor: **Prof. Christopher Sogge**

Fiber Bundles & Characteristic Classes

Instructor: **Prof. Xianzhe Dai**

Algebra, Geometry and Analysis of Commuting Ordinary Differential Operators

Instructor: **Prof. Alexander Zheglov**

Lectures:

Cheol-Hyun Cho (Seoul National University)

Popelenskii Fedor (Moscow State University)

Otto Koert (Seoul National University)

Toshitake Kohno (The University of Tokyo)

Introduction to representation theory of braid groups

Igor Nikonov (Moscow State University)

Georgy Sharygin (Moscow State University)

Please check the Summer School homepage for updated course information:

<http://www.math.pku.edu.cn/misc/puremath/summerschool/index.htm>

Schedule

First week (July 16-20)

Mon	Tue	Wed	Thu	Fri
Opening session (8:30-9:30)	AG(8:30-10:30)	HA(8:30-10:30)	AG(8:30-10:30)	AG(8:30-10:30)
FC (9:30-11:30)		Lecture(Cho, 11:00-12:00)		
SG(1:15-3:15)	FC(1:15-3:15)	FC(1:15-3:15)	HA(1:15-3:15)	HA(1:15-3:15)
OD(3:30-5:30)	SG(3:30-5:30)	OD(3:30-5:30)	SG(3:30-5:30)	OD(3:30-5:30)

Second week (July 23-27)

Mon	Tue	Wed	Thu	Fri
HA(8:30-10:30)	AG(8:30-10:30)	OD(8:30-10:30)	AG(8:30-10:30)	AG(8:30-10:30)
Lecture(Kohno, 11:00-12:00)	OD(10:40-12:40)	Lecture(Koert, 11:00-12:00)	Lecture(Nikonov, 11:00-12:00)	Lecture(Fedor, 11:00-12:00)
SG(1:15-3:15)	FC(1:15-3:15)	FC(1:15-3:15)	HA(1:15-3:15)	FC(1:15-3:15)
OD(3:30-5:30)	SG(3:30-5:30)	HA(3:30-5:30)	SG(3:30-5:30)	Sharygin(3:30-4:30)

Note: FC=Fiber bundle & characteristic classes; SG=Symplectic geometry; AG=Basic algebraic geometry; HA=Harmonic analysis; OD=Algebra, Geometry and Analysis of Commuting Ordinary Differential Operators

Prof. Bo Dai will be the instructor of Symplectic Geometry for the first week; **Prof. Tian-Jun Li** will be the instructor of Symplectic Geometry for the second week.

Schedule is subject to change. Please check the Summer School webpage for updated schedule:

<http://www.math.pku.edu.cn/misc/puremath/summerschool/schedule.htm>

You need your name tag to enter the East Gate.



From 神州商旅酒店 (hotel for students) to 永丰南地铁站 (Yongfeng South station):



A detailed map of the Yunnan University campus. A black line indicates the route from the Shaoyuan Hotel (located near the International Relations Building and the second dormitory area) to the Natural Science Teaching Building (located near the School of Mathematical Sciences). The map includes various buildings, green spaces, and a compass rose in the top left corner.

燕山大酒店 (Yanshan Hotel) and 人民大学站 (Renmin University Station)

