

International Summer school on TeV Experimental Physics (iSTEP-2016)

Second Bulletin (5/July/2016)

The International Summer school on TeV Experimental Physics (iSTEP) will be held from July 10 - 20, 2016 at Tsinghua University (THU), Beijing, China. The 2016 summer school will introduce the physics programs at the Large Hadron Collider (LHC) and the future high energy physics experiments. Lectures will cover theoretical background, physics motivation, experimental setup/methods, and the latest results on various particle physics topics, including the Standard Model, Higgs Physics, SUSY, and exotic New Physics searches. As a summer school aiming at experimentalists, hands-on tutorials will be provided. We also strongly encourage conversations and discussion between students and lecturers.

iSTEP is aimed to guide the first steps of the beginners at particle physics, such as senior undergraduate and young graduate students.

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Sponsoring Institutions:

National Natural Science Foundation of China,

Institute of High Energy Physics of CAS,

CAS Center for Excellence in Particle Physics,

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Tsinghua University,

Tsinghua University Center for High Energy Physics,

Shanghai Jiao Tong University,

University of Science and Technology of China,

Shandong University,

University of Hong Kong,

National Tsinghua University

Program Schedule:

Preliminary Lecture Schedule: 90 minutes lecture contains two 40 minutes sessions (including Q&A) and a 10 minutes break.

	9:00-10:30	11:00-12:30	14:00-15:30	16:00-17:30	19:00-20:30
7-11	Opening Speech (陈曦) (30 minutes) The origin of mass Qing Wang	Collider physics Bruce Mellado	Neutrino physics Zhizhong Xing	Detector (1) Hubert Kroha	Introduction to online System Dayong Wang
7-12	Standard Model (1) Tao Han	Detector (2) Hubert Kroha	Simulation and reconstruction Manqi Ruan	Statistical Methods in Particle Physics (1) Glen Cowan	Particle Identification Huaqiao Zhang
7-13	Standard Model (2) Tao Han	Higgs measurements Bruce Mellado	ROOT training Siguang Wang	Machine Learning Daniel Whiteson	Root Tutorial (Computer Center) Siguang Wang
7-14	Beyond Standard Model Theory (1) Qinghong Cao	SM measurements Zhijun Liang	BSM - Exotics Daniel Whiteson	Statistical Methods in Particle Physics (2) Glen Cowan	School Dinner (观畴园三层)
7-15	Jet reconstruction Matteo Cacciari	BSM SUSY Xu-ai Zhuang	Beyond Standard Model Theory (2) Qinghong Cao	Statistical Methods in Particle Physics (3) Glen Cowan	Statistical Tutorial (Computer Center) Glen Cowan
7-16	Visit BES-III				
7-17	Jet Tutorial Matteo Cacciari	Group Study, Q&A (1) (Computer Center) Glen Cowan, Qiang Li, Gang Li, Huaqiao Zhang, Ning Zhou			
7-18	Event Generators Stefan Hoeche	Accelerator physics Yuan Zhang	MC Tutorial Stefan Hoeche	ATLAS virtual room Marc Cano Bret, Yanjun Tu	
7-19	QCD calculations Stefan Hoeche	Group Study, Q&A (2) (Computer Center) Glen Cowan, Qiang Li, Gang Li, Huaqiao Zhang, Ning Zhou			
7-20	Group Presentation and Evaluation Qiang Li, Gang Li, Huaqiao Zhang, Xu-ai Zhuang, Ning Zhou, Xin Chen		Prize & Summary		School End

Registration:

On-site registration is open on July 10 between 3pm to 5:30pm at Xijiao Hotel Beijing (北京西郊宾馆, 5号楼大堂). The registration will continue in the morning of July 11 (note that the first lecture starts at 9:00 am) at the lecture venue. There is no fee for lecturers, all other participants should pay registration fee in cash (check conference website for fee structure).

Venue and Accommodation:

清华大学物理系郑裕彤大讲堂:



上机地点: 清华大学计算中心 (Computer Center, Windows VM, Ubuntu), 位于清华大学主楼地下 2 层。

Note: Although computing facilities are provided at the Computer Center, we still encourage students bringing their own laptops (if you have one) to the school. This is especially helpful in the tutorial sessions in the lecture room, or when you want to practice by yourselves. Students without a laptop can share with others.

Lecturers:

The lecture room is equipped with a PC and a projector. Apple users please provide a PDF version or check compatibility of your computer system with the projector.

Conference Website:

<http://indico.ihep.ac.cn/event/5966>

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丁伟(15527814579)。

Email of School: istep2016@mails.tsinghua.edu.cn

Traffic:

公共交通枢纽-清华大学

- 北京站-清华东南门（主校门）
乘地铁 2 号线从北京站到西直门下，换地铁 13 号线到五道口，北出口出来后距清华大学东门约 1000 米。
- 北京南站-清华东南门（主校门）
乘地铁 4 号线从北京南站到西直门下，换地铁 13 号线到五道口，北出口出来后距清华大学东门约 1000 米。

- **北京首都机场-清华西门**
乘机场大巴 5 号线到中关村，中关村机场大巴（保福寺桥西）距清华大学西门约 3 公里。
- **北京西站-清华大学西门**
乘地铁 9 号线（国家图书馆方向），在国家图书馆站下车，换乘地铁 4 号线（安河桥北方向）在圆明园站下车（B 口出），步行 200 米至清华大学西门。
- **北京南站-清华大学西门**
乘地铁 4 号线（安河桥北方向）在圆明园站下车（B 口出），距清华大学西门 200 米。
- **北京站-清华大学西门**
乘地铁 2 号线从北京站到西直门下，换地铁 4 号线到（安河桥北方向）在圆明园站下车（B 口出），距清华大学西门 200 米。

清华大学校内指路

- **清华大学东南门（主校门）—理科楼物理系：**
进校门后北行到头，左转进入日新路；沿日新路西行到头，右转进入学堂路；沿学堂路北行 400 米，左转进入清华路；沿清华路西行 800 米，右转进入近春路；沿近春路北行 650 米到头，至西北门后右转进入至善路东行约 150 米，路南即到。全长约 2500 米。
- **清华大学西门—理科楼物理系：**
进入西门，沿清华路东行 300 米，见西湖游泳池左转进入近春路。见沿近春路北行 650 米到头，至西北门后右转沿至善路东行 150 米，路南即到。
- **清华大学西北门—理科楼物理系：**
进入西北门后右转沿至善路东行 150 米，路南即到。

Map of Campus:

<http://indico.ihep.ac.cn/event/5966/picture/29.jpg>

用餐：

统一发放校园用餐卡，三餐在校内食堂用餐。

学员住宿：

7月10-15日：北京西郊宾馆（2人标准间，随机分配）。10日登记入住时请准备200元押金，退房时返还宾馆。房费已由暑期学校承担，但宾馆房间内除矿泉水外的其它饮料消费需由学员自己承担，宾馆不提供早餐。



7月16-21日：清华大学校内紫荆学生公寓（4人一间，空调）。21日中午12点前退房，退还餐卡。

用车接送：

7月10号将安排车辆在北京南站、西客站接学员至清华，请关注邮件通知。学员也可自行前往西郊宾馆完成注册、入住手续（身份证登记）。有问题请联系四位会务人员。

7月11-15日每天早上7:45发车从西郊宾馆到郑裕彤讲堂，晚上8:45从校内返回西郊宾馆。7月16号早上9:00发车参观BES-III。