

International Summer school on TeV Experimental Physics (iSTEP 2014)

Third Bulletin

Reception and Banquet:

There will be a brief reception held on the evening of August 20th at the Canteen of IHEP (Expert Restaurant [专家招待所]) followed by buffet dinner. The school opening banquet will be held on the evening of August 21st at Ju Fu Lou Restaurant [聚福楼] near IHEP campus.

Lecture Schedule:

100 minutes lecture contains two 45 minutes sessions (including Q&A) and a 10 minutes break.

	9:00-10:40	10:50-12:30	14:00-15:40	15:50-17:30
8-20 (Wed)	Opening Speech on HEP Experimental Research at IHEP and China (H.-S. Chen)	Standard Model – Electroweak Theory(1) (Q.-H. Cao)	Collider Phenomenology (1) (Q.-H. Cao)	Standard Model Measurements (Jianbei Liu)
8-21 (Thu)	Standard Model – Electroweak Theory(2) (Q.-H. Cao)	Accelerator Physics (Jie Gao)	Collider Phenomenology (2) (Q.-H. Cao)	Higgs Physics Experimental Results (Bruce Mellado)
8-22 (Fri)	Standard Model – QCD Theory(1) (Z.-G. Si)	Detector & Reconstruction Overview (Manqi Ruan)	Calorimeter (J.-G. Lv)	Tracking Detector (1) (Keisuke Fujii)
8-23 (Sat)	Standard Model – QCD Theory(2) (Z.-G. Si)	Tracking Detector (2) (Keisuke Fujii)	MC Simulation and Event Generator (Wolfgang Kilian)	Hadron Physics Experimental Results (Haibo Li)
8-24 (Sun)	Excursion			
8-25 (Mon)	Introduction to Beyond Standard Model Theory (1) (J.-M. Yang)	Muon Detector (C.-H. Jiang)	Statistics Methods in Particle Physics (1) (Glen Cowan)	SUSY Searches at Collider Experiments (Xuai Zhuang)
8-26 (Tue)	Introduction to Beyond Standard Model Theory (2) (J.-M. Yang)	Trigger and Data Acquisition System (Z.-A. Liu)	Statistics Methods in Particle Physics (2) (Glen Cowan)	Top Quark Physics Experimental Results (Yanjun Tu)
8-27 (Wed)	Higgs Physics phenomenology (L.-L. Yang)	Statistics Methods in Particle Physics (3) (Glen Cowan)	Non-SUSY New Physics Searches at Collider Experiments (Bruce Mellado)	Future of TeV Physics (Wolfgang Kilian)
8-28 (Thu)	Group Study, Q&A (1)		Group Study, Q&A (2)	
8-29 (Fri)	Group Presentation and Evaluation		Prize & Summary	

Hands-on Tutorial Schedule:

Each tutorial lasts about 2 - 3 hours and requires remote access of virtual machines (Linux servers located at IHEP), please bring a laptop and familiarize yourself with basic Linux OS commands and Shell environment (e.g. BASH) beforehand.

	8-20 (Wed)	8-22 (Fri)	8-23 (Sat)	8-25 (Mon)	8-26/27 (Tue/Wed)
19:30 21:30	ROOT Software (Siguang Wang)	Dynamic Variables and Physics Observables (Lianyou Shan)	MC Sample Analysis: Event generation, Background rejection and Signal selection (Qiang Li)	Statistics Tools (L.-L. Ma)	Analysis Projects: ATLAS/CMS/CEPC (Fang, Chen, Ma, Zhang, Li, Qi etc.)
8-28 (Fri)	1) visit PKU to attend a WHIZARD MC generator tutorial, and/or 2) continue working on the assigned analysis project, Q&A				

Students will be divided into small groups (5-6 students per group) and each group will work on an analysis project assigned on August 26th (for one of the three major topics: ATLAS, CMS and CEPC). Each team will finish the project and make an oral presentation on the last day of the school (August 29th). The organizer committee will evaluate the results and issue prizes to outstanding teams/individuals.

Registration:

On-site registration is open on August 19 between 3pm to 5:30pm in front of the lecture room (see below). The registration will continue on the morning of August 20 (note that the first lecture starts at 9am). There is no fee for lecturers, all other participants should pay registration fee in cash (check conference website for fee structure).

Venue and Accommodation, Travel information:

The lectures will be given at the lecture room C305 of Main Building (East Wing, a.k.a. Chemistry Building), IHEP campus [高能所主楼C305]. Participants will be accommodated at the IHEP Guest House (for students) [高能所专家招待所小二楼] and Jin Ding Hong Tai Hotel (for lecturers and overflow) [金鼎宏泰大酒店], which are both near the lecture site. Some detailed information including addresses and a map can be found here: <http://cfhep.ihep.ac.cn/accommodation.htm>, CFHEP website also contains some useful [travel information](#) and [arrival tips](#) (for foreigners).

Excursion:

On August 24th, there will be an excursion. First, all participants are invited for a tour of IHEP campus (including BEPC) and then the group will depart for the Great Wall. Lunch and dinner will be provided.

Lecturers:

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

Conference Website:

<http://indico.ihep.ac.cn/conferenceDisplay.py?ovw=True&confId=4127>

Contact:

Email: zhanghq@ihep.ac.cn (Huaqiao Zhang), liangli@sjtu.edu.cn (Liang Li)
zhuhb@ihep.ac.cn (Hongbo Zhu), moyl@ihep.ac.cn (Yeliu Mo)