

International Symposium on Higgs Boson and  
Beyond Standard Model Physics  
August 15-19, 2016, Weihai

# Handbook

希格斯物理和超出标准模型物理国际研讨会  
(2016年8月15日-19日, 威海)

## **Organizer:**

Shandong University

Institute of High Energy Physics (IHEP)

University of Science and Technology of China (USTC)

## **主办方:**

山东大学

中国科学院高能所物理研究所

中国科学技术大学

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# I Basic Information

International Symposium on Higgs Boson and Beyond Standard Model Physics will be held in Shandong University, Weihai, on August 15-19, 2016.

For more information, please visit the hotel website:

<http://indico.ihep.ac.cn/event/5635/overview>

## 1) Venue

The meeting will be held at the international lecture hall (国际报告厅), second floor of academic exchange center (学术交流中心二楼).

## 2) WIFI

Account: ACA-STAY

Password: 88888888

# II Contact

## Organizer:

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# III Registration

The registration fee is ¥1500RMB for participants. The fee must be paid in Chinese RMB only. Please note that the credit card payment cannot be accepted. The registration fee for each family member is ¥700.00 RMB/person, which covers all the meals.

## On-site Registration:

- August 14: 15:00 – 20:30, Lobby of Academic Exchange Center
- August 15 –18: 08:00 – 17:00, Outside of the Meeting Room

## IV Meal

All the meals (including breakfast\lunch\dinner) will be taken at academic exchange center. Some participants who do not stay at academic exchange center need to take meals at academic exchange center. All the meals coupons will be taken to the participants at on-site registration. If you have special requirements for food (vegetarian or Muslim), please contact conference secretary.

Date	Breakfast	Lunch	Dinner
<b>Aug 14<sup>th</sup></b>	—	—	First floor (Buffet)
<b>Aug 15<sup>th</sup></b>	First floor (Buffet)	First floor (Buffet)	<b>Reception (Beach Barbecue)</b>
<b>Aug 16<sup>th</sup></b>	First floor (Buffet)	First floor (Buffet)	First floor (Buffet)
<b>Aug 17<sup>th</sup></b>	First floor (Buffet)	First floor (Buffet)	<b>Banquet</b>
<b>Aug 18<sup>th</sup></b>	First floor (Buffet)	First floor (Buffet)	First floor (Buffet)
<b>Aug 19<sup>th</sup></b>	First floor (Buffet)	First floor (Buffet)	First floor (Buffet)

Banquet: Conference dinner will be taken at Haiyue Jianguo Restaurant (海悦建国酒店) at 19:00 on August 17. It takes 15 minutes' walk from the venue. Address: Cultural West Road, Huancui District Road No.177, Weihai, near Sai Avenue (opposite the South Gate of Weihai campus of Shandong University) 威海市环翠区文化西路177号, 近世昌大道 (山东大学威海校区南门对面)

# V Agenda

<b>Timetable</b>		
<b>2016/8/15 Monday</b>		
08:00-08:30	Registration	
08:30-08:50	Welcome	
08:50-09:50	Conveners: Shan Jin (IHEP)	
08:50-09:20	The Higgs boson and beyond	Tao Han (Univ. of Pittsburgh & Tsinghua University)
09:20-09:50	LHC status	Matteo Solfaroli (CERN)
09:50-10:30	Break	
10:30-12:00	Conveners: Tao Han (Univ. of Pittsburgh & Tsinghua University)	
10:30-10:30	ATLAS status	Alessandro Polini (Bologna)
11:00-11:30	CMS status	Greg Rakness (Fermilab)
11:30-12:00	LHCb status	Yuanning Gao (TShinghua)
12:00-13:30	Lunch	
13:30-15:00	Conveners: Guoming Chen (IHEP)	
13:30-14:00	Higgs boson production and decays with ATLAS detector	Haifeng Li (Stony Brook)
14:00-14:30	Higgs boson production and decays with CMS detector	Mingshui Chen (IHEP)
14:30-15:00	Higgs Boson Production and Decay at Hadron Colliders	Li Lin Yang (PKU)
15:00-15:30	Break	
15:30-16:00	Conveners: Shenjian Chen (Nanjing University)	
15:30-16:00	SUSY searches with ATLAS detector	Xuai Zhuang (IHEP)
16:00-16:30	SUSY after LHC Higgs discovery	Jinmin Yang (ITP)
18:30-20:30	Reception	
<b>2016/8/16 Tuesday</b>		
08:30-10:00	Conveners: Jinmin Yang (ITP)	
08:30-09:00	BSM Higgs searches with ATLAS detector	Takanori Kono (Ochanomizu)
09:00-09:30	BSM Higgs searches with CMS detector	Li Yuan (Beihang University)
09:30-10:00	BSM Higgs physics	Tao Liu (HKUST)
10:00-10:30	Break	
10:30-12:00	Conveners: Yuanning Gao (Tsinghua University)	
10:30-11:15	Overview of Flavor Physics at LHCb	Yuehong Xie (CCNU)
11:15-12:00	Flavor physics in the new era	Ying Li (YanTai Univ.)
12:00-13:30	Lunch	
13:30-15:00	Conveners: Yajun Mao (Peking University)	
13:30-14:00	Exotics searches with CMS detector	Huaqiao Zhang (IHEP)
14:00-14:30	Exotics searches with ATLAS detector	Chunhui Chen (Iowa State)

14:30-15:00	Higgs rare decays at ATLAS and CMS	Liang Li (SJTU)
15:00-15:30	Break	
15:30-17:00	Conveners: Qing Wang (Tsinghua University)	
15:30-16:00	ILC project - overview and status	Hitoshi Yamamoto (Tohoku University)
16:00-16:30	Neutrino experimental physics	Liangjian Wen (IHEP)
16:30-17:00	Neutrino physics in the new era	Shun Zhou (IHEP)
<b>2016/8/17 Wednesday</b>		
08:30-10:00	Conveners: Lianliang Ma (Shandong University)	
08:30-09:00	Collider Dark Matter searches at ATLAS and CMS	Francesca Ungaro (Melbourne)
09:00-09:30	Non-accelerator based Dark Matter searches	Ning Zhou (Tshinghua)
09:30-10:00	Dark Matter theory and searches	Yu-Feng Zhou (ITP)
10:00-10:30	Break	
10:30-12:00	Conveners: Yaquan Fang (IHEP)	
10:30-11:00	Higgs properties at ATLAS and CMS	Marcello Fanti (Milano)
11:00-11:30	DiHiggs and Prospect at ATLAS and CMS	Martino Dall'Osso (Padova)
11:30-12:00	SUSY searches with CMS detector	Teruki Kamon (Texas A&M Univ.)
12:00-13:30	Lunch	
13:30-17:40	Session1	
13:30-15:00	Conveners: Haijun Yang (Shanghai Jiao Tong University)	
13:30-13:50	High mass $H \rightarrow WW \rightarrow l\nu l\nu$ search with ATLAS Detector	Yongke Zhao (Shandong Univ.)
13:50-14:10	Search for heavy resonances decaying to WW in semileptonic channel at CMS	Huang Huang (Peking Univ.)
14:10-14:30	Search for $hh \rightarrow \gamma\gamma WW$ via the Semi-leptonic decay of WW with ATLAS detector	Qi Li (IHEP)
14:30-14:50	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV with CMS detector	Muhammad Ahmad (IHEP)
14:50-15:10	JDM: $HH \rightarrow 4b$ with ATLAS Detector	Baojia Tong (Harvard)
15:10-15:40	Break	
15:40-17:40	Conveners: Junquan Tao (IHEP)	
15:40-16:00	DBL: all $llqq/\nu\nu qq$ with ATLAS Detector	Steven Partrick Alkire (Columbia)
16:00-16:20	Electroweak W gamma production in association with two jets at $\sqrt{s} = 8$ TeV with CMS detector	Daneng Yang (Peking Univ.)

16:20-16:40	Study on VBF H->gamma gamma with ATLAS detector	Yu Zhang (IHEP)
16:40-17:00	Search for heavy neutral Higgs in di-boson final state at CMS	Tongguang Cheng (IHEP)
17:00-17:20	Search for displaced leptons in the e-mu channel at CMS	Bingxuan Liu (The Ohio State Univ.)
17:20-17:40	Data driven W+Jet background estimation by fake factor method for WW->lvlv final state	Weimin Song (Shandong Univ.)
13:30-16:20	<b>Session2</b>	
13:30-15:10	Conveners: Qing-Hong Cao (Peking University)	
13:30-13:50	Higgs Pair Productions in the CP-violating 2HDM	Ning Chen (USTC)
13:50-14:10	Hunting for light exotic Higgs bosons: from zero to two	Zhaofeng Kang (KIAS)
14:10-14:30	Natural NMSSM after LHC Run I and the Higgsino dominated dark matter scenario	Yang Zhang (PKU)
14:30-14:50	NNLO QCD corrections to Higgs boson production at large transverse momentum and Higgs-plus-jet final states	Xuan Chen (CHEP@PKU)
14:50-15:10	Double Higgs production at the 14 TeV LHC and 100 TeV hadron colliders	Dongming Zhan (ITP@PKU)
15:10-15:40	<b>Break</b>	
15:40-16:20	Conveners: Ning Zhou (Tsinghua University)	
15:40-16:00	Search for di-Higgs decaying to WWWW with the final state of the same sign leptons plus 4 jets at LHC	Maosen Zhou (IHEP)
16:00-16:20	Probing the nature of Higgs boson from Great Collider(CEPC/SppC) to Gravitational Wave	Fapeng Huang (IHEP)
19:00-21:00	<b>Banquet</b>	
<b>2016/8/18 Thursday</b>		
08:30-10:00	Conveners: Cai-Dian Lu (IHEP)	
8:30-09:00	Theory on CEPC physics	Hong-Jian He (Tsinghua)
9:00-09:30	The study of the detector for CEPC	Haijun Yang (SJTU)
9:30-10:00	Simulation and Physics on CEPC	Manqi Ruan (IHEP)
10:00-10:30	<b>Break</b>	
10:30-12:30	Conveners: Manqi Ruan (IHEP)	
10:30-11:00	The studies of dynamic aperture on CEPC	Yiwei Wang (IHEP)
11:00-11:30	Partial double ring design for SppC and CEPC	Feng Su (IHEP)
11:30-12:00	SCRF System Studies for CEPC APDR and Booster	Zhenchao Liu (IHEP)
12:00-12:30	CEPC Booster Designs	Tianjian Bian (IHEP)
12:30-14:00	<b>Lunch</b>	
14:00-15:30	Conveners: Zongguo Si (Shandong University)	
14:00-14:30	Higgs Physics at FCC 100 TeV Collider	Weiming Yao (LBNL)

14:30-15:00	Study on SppC	Jingyu Tang (IHEP)
15:00-15:30	New physics after the Higgs discovery	Eung Jin Chun (KIAS)
<b>2016/8/19 Friday</b>		
Free		

## **VI Transportation**



Please find detail travel information to Weihai Campus from conference website:

<http://indico.ihep.ac.cn/event/5635/page/2>

*\*Note: If you plan to take taxi, please take taxi from taxi station.*

## How to get to Academic exchange center, Shandong University, Weihai Campus

### 1、From train station to hotel



- From **Weihai north** railway station (威海北火车站), it takes about 10 minutes by taxi, the fare is about 15 RMB.
- From **Weihai Railway station** (威海火车站), it takes about 60 minutes by taxi, the fare is about 60 RMB.

### 2、From Airport to hotel



1) From **Weihai Da shuibu Airport** (威海大水泊机场),

- **By taxi:** It takes about 70 minutes, the fare is 160 RMB.
- **By airport shuttle bus:** Take the airport bus line (Haiyue jianguo gate Hotel direction) to Weihai campus(the ticket is 20RMB), and then take taxi to Academic exchange center or walk through the campus, the fare is about 7RMB. After each air flight arrived, there are the airport buses departure. The advice tel of airport bus: 0631-8641788. (威海大水泊机场至威海市区线路: 机场—威海经区—环翠区—高区, 票价: 20 元。每一航班到达后均有大巴发车。机场巴士咨询电话: 0631-8641788, 从山大威海校区站打车到威海学术中心, 大概 7 元左右就可到达。也可在山大威海校园内穿过。)

2) From **Yantai Penglai Airport** (烟台蓬莱机场),

- **By taxi:** It takes about 100 minutes by taxi, the fare is about 240 RMB.
- **By airport shuttle bus:** Take the airport bus line (LiQun Shop direction) to LiQun Shop(the ticket is 80RMB), and then take taxi to Academic exchange center, the fare is about 10RMB. The advice tel of airport bus: 0631-56783333, 0631-520777

# 山东大学(威海)校园示意图



# Notice

## 1) Driving Directions

1. Please drive me to Weihai academic exchange center (Wen hai yuan) , which within the Shandong University Weihai campus. Thank you.

请送我去山东大学威海学术交流中心（文海苑）大酒店，地址：威海市北环海路 130 号，

Emergency contact: Lianliang MA:86 15853173211 (telephone number)

Lan ZHANG:86 13793114353 (telephone number)

紧急联系人：马连良：15853173211, 张兰:13793114353

2. Please drive me to Weihai Wen le yuan hotel, which within the Shandong University Weihai campus. Thank you.

请送我去山东大学威海校区文乐苑酒店，地址：威海市北环海路 130 号

Emergency contact: Lianliang MA:86 15853173211 (telephone number)

Lan ZHANG:86 13793114353 (telephone number)

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3. Please drive me to Jinsha international hotel, which within the Shandong University Weihai campus. Thank you.

请送我去请送我去金沙国际酒店，地址：威海市北环海路 391 号

Emergency contact: Lianliang MA:86 15853173211 (telephone number)

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紧急联系人：马连良：15853173211, 张兰:13793114353

4. Please drive me to Haiyue Jianguo Restaurant.

请送我去请送我去海悦建国饭店，地址：威海市环翠区文化西路 177 号，近世昌大道（山东大学威海校区南门对面）

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## 2) Excursion

We could entrust a travel service company to arrange an excursion right after the Collaboration Meeting (**August 20, 2016**). The fees will be paid by yourself. The possible sightseeing lines are: (at least 20 people in the group)

**Line A:** Liugong Island Tour

**Price:** About 158 CNY /person include Liugong Island tickets

**Line B:** Chengshan Scenic Area Tour

**Price:** About 220 CNY/ person include Chengshan Scenic Area tickets and lunch

If you want take the excursion, please chose the line A or B during the on-site registration. You will pay the excursion fee to travel agency during the conference. For detail information, please consult the travel agency.

### Tour information

**Line A:**Liugong Island at the mouth of Granville Gulf, from the pier 2.1 sea miles of urban tourism,travel by boat 20 minutes to reach the sky Shuiyun it faces the Yellow River, back to the azure blue Granville Gulf, known as "Upper Ping Fan" and "Shen warships "Said.

Liugong Island North alleviate the steep South, East and West of 4.08 km,1.5 km north and south of the wide, the narrowest 0.06 km,14.95 km long coastline, the area of 3.15 square kilometers, the highest mountain top flag 153.5 meters above sea level 10,000 are Island East blue sea, Yanbo Hao-miao, Island West and the urban areas across the sea.[Island vegetation lush, green, black pine mainly up to more than 2,700 acres, was named the 1985 National Forest Park. Liugong Island in 1999 by the Ministry of Construction called "national scenic areas of civilization

Liugong Island for the state AAAAA-class scenic area.[China Sino-Japanese War Museum, Liugong Island Bolan Yuan, the 1894 naval clash Museum, Liugong Island National Park, Liu Gongmiao Weihai City, and other attractions for marine natural barrier, in national defense on an extremely important position.

刘公岛景区位于山东半岛最东端的威海湾内，东西长 4.08 公里，南北最宽处 1.5 公里，面积 3.15 平方公里，最高点海拔 153.5 米，距威海市区 2.1 海里。刘公岛人文景观丰富独特，既有上溯千年的战国遗址、汉代刘公刘母的美丽传说，又有清朝北洋海军提督署、水师学堂、古炮台等甲午战争遗址，还有众多英租时期遗留下来的欧式建筑，素有“东隅屏藩”和“不沉的战舰”之称。其北部海蚀崖直立陡峭，南部平缓绵延，森林覆盖率达 87%，有“海上仙山”和“世外桃源”的美誉。

刘公岛自 1985 年由封闭的军事禁区对外开放以来，景区风景名胜资源保护利用取得丰硕成果，已成为国家 AAAAA 级旅游景区，是全国红色旅游经典景区，开放的主要景点有中国甲午战争博物院、中国甲午战争博物馆刘公岛国家森林公园、刘公岛博览园、刘公岛鲸馆、旗顶山炮台、东泓炮台、铁码头等景点。



LineB: Chengshan Scenic Area is located in Rongcheng Chengshan the easternmost mountain range, they are named Chengshan. Chengshan 200 meters above sea level, two kilometers long from north to south, east-west 1.5 kilometers wide, covering an area of 2.5 square kilometers. South Korea across the sea here, only 94 sea miles, is the most land and sea at the eastern end of the junction, is one of the first places to see the sunrise at sea, so as the "Sun Kai or place", and "Cape of Good Hope in China" known. Chengshan is surrounded by sea and land side access, green mountain peaks, vast blue sea, cliff Weiran, snow waves, magnificent momentum, is an ideal summer resort tourism. In 1988, it has been approved by the State Council as a "state-level scenic spots."

成山头风景旅游区位于荣成市成山山脉最东端，故而得名成山头。成山头海拔 200 米，南北长 2 公里，东西宽 1.5 公里，面积 2.5 平方公里。这里与韩国隔海相望，仅距 94 海里，是陆海交接处的最东端，是最早看见海上日出的地方，所以被誉为“太阳启升的地方”，又有“中国好望角”之称。成山头三面环海，一面接陆，群峰苍翠连绵，大海浩瀚碧蓝，峭壁巍然，巨浪飞雪，气势壮观，是理想的旅游避暑胜地。1988 年，它被国务院批准为“国家级风景名胜区”。

## VII Participants List

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