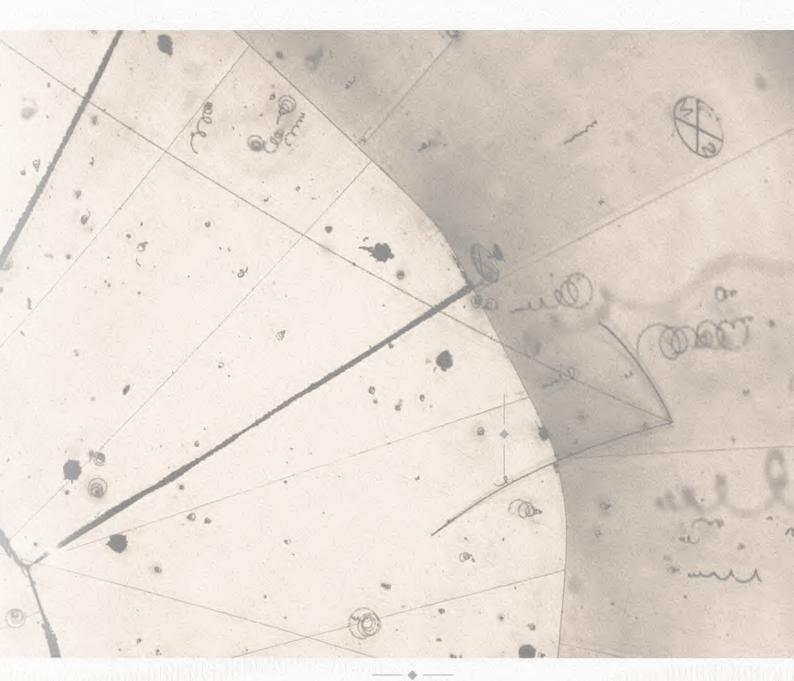
The 29th International Workshop on Weak Interactions and Neutrinos 第 29 届弱相互作用和中微子国际研讨会

# CONFERENCE HANDBOOK



Jul.3-Jul.8 ZHUHAI•CHINA

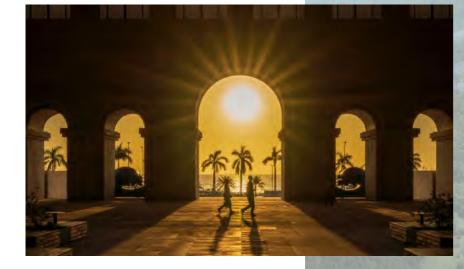


Zhuhai City





Zhuhai, located in the south-central part of Guangdong Province, is one of the special economic zones in China. Bordering the Pearl River estuary to the east and the Pearl River Delta Economic Zone to the north, adjacent to Hong Kong and Macau. It is a coastal city with beautiful scenery, developed economy, and profound cultural heritage. The charm of Zhuhai lies in its status as a modern city with rich historical and cultural heritage. It was one of the earliest cities in mainland China to open up to the outside world and is also considered one of the top 10 most livable cities in China. As a vibrant and dynamic city with immense development potential, Zhuhai is a beautiful tourist destination that attracts numerous domestic and international tourists to visit, experience, and invest in the city. Zhuhai is committed to developing itself into a new economic engine and a fascinating city with distinctive characteristics for the Greater Bay Area.











Sun Yat-sen University Zhuhai Campus is a branch of Sun Yat-sen University located at Tangjiawan, Zhuhai City, Guangdong Province, China. It is a coastal campus with a beautiful environment occupying an area of 3.571 square kilometers. Some areas of the campus are located on hills, while others are winding along the coast.

The campus have abundant qualified teachers and complete educational facilities, providing excellent opportunities and conditions for students' learning and growth. After years of construction and development, Zhuhai Campus has become a popular choice for many students and staff pursuing higher education and career development.

The International Workshops on Weak Interactions and Neutrinos (WIN) is a long historically standing international scientific event in the field of elementary particle physics and astrophysics.

It has been organized regularly for the past 50 years at many venues in Africa, Asia, Europe, Oceania, Latin America, and North America.

The workshops aim to effectively promote communication and cooperation among researchers within the field to assess the status of major topics and initiate collaborative efforts to address current challenges. The workshops attract distinguished experimentalists and theorists from all over the world, and provide the excellent opportunity to exchange ideas and develop new strategies. In many cases, the efforts initiated at these Workshops result in completed projects that are published in international journals. These projects have sometimes proven to be major breakthroughs such as the MSW effect, which was first discussed at the WIN85 meeting in Finland.

The 29th workshop (WIN2023) will take place at Sun Yat-sen University (SYSU), Zhuhai campus, from July 3 to 8, 2023. It is organized by the Sino-French Institute of Nuclear Engineering and Technology (IFCEN) of SYSU, and co-organized by the Institute of Advanced Science Facilities, Shenzhen (IASF). We cordially invite all researchers, faculty members, students, and industry professionals working on the subject and related fields to participate in this workshop.

SOCIONOS

# **Conference Theme**

The program allows ample time for formal and informal discussions in the five working groups:

- Neutrino Physics
- Electroweak Interactions
- Flavor and Precision Physics
- Astro-particle Physics and Cosmology
- Applications of Nuclear Technology

# **Registration and schedule**

Registration Deadline: June 15, 2023

Registration Fees: Early registration fee (May 1 - May 31, 2023).

Regular Participants: CNY ¥ 3000 (~ US\$ 440)

Students and Post-doctors: CNY ¥ 2000 (~ US\$ 293)

Late registration fee (June 1 - June 30, 2023).

Regular Participants: CNY ¥ 3500 (~ US\$ 513)

Students and Post-doctors: CNY \(\neq\) 2500 (\(\neq\ US\$ 367)

Attendees are expected to arrive on Sunday, July 2, 2023, and depart after lunch on Saturday, July 8, 2023. The workshop will be held from Monday to Saturday, with intensive parallel sessions devoted to informal discussions on Tuesday, Wednesday, and Friday afternoons. Thursday is designated as a rest day (a excursion opportunity will be provided, while the rest of the schedule comprises plenary sessions).

#### From airports



14 | Transportation



The conference venue is located at the No.6 Building of Haiqin, Zhuhai Campus of Sun Yat-sen University, close to the south gate of the university. During this conference, the local organizing committee (LOC) has arranged four hotels located within three kilometers of the conference venue for attendees to choose from. Please refer to the map above for the detailed locations.

### Tangyi Hotel 唐邑酒店

Tel: +86-756-3911111

Address: Gangwan No. 1, Science Creation Park, Jintang Road,

High-tech District, Zhuhai, China.

广东省珠海市香洲区港湾大道1号园区2号楼

#### Qingzhu Shuyuan Hotel 青竹书院酒店

Tel: +86-756-3662088

Address: Building #6, Jinshan Software Park, No. 1858, Qinglv

North Road, High-tech District, Zhuhai, China. 广东省珠海市香洲区唐家湾镇情侣北路 1858 号

#### Lifeng Hotel 丽枫酒店

Tel: +86-756-2213988

Address: No. 437, Tangqi Road, High-tech District, Zhuhai, China.

广东省珠海市高新区唐淇路 437 号唐家湾海滩店

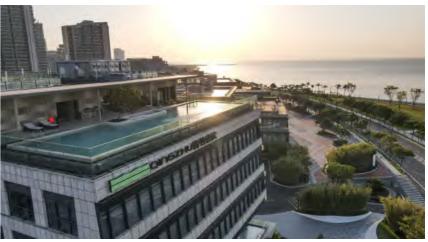
#### The Grand Nest Hotel 巢酒店

Tel: +86-756-6919888

Address: No. 11 Tangqi Road, Tangjiawan Town, Xiangzhou District, Zhuhai, China.

广东省珠海市珠海市香洲区唐家湾镇唐淇路 11号









# Agenda

|                                | Sunday       | Monday  | Tuesday   | Wednesday   | Thursday     | Friday  | Saturday  |
|--------------------------------|--------------|---|---|---|--------------|---|---|
|                                | July 2, 2023 | July 3, 2023  | July 4, 2023  | July 5, 2023  | July 6, 2023 | July 7, 2023  | July 8, 2023  |
| 08:00-08:30                    |              | Registration Welcome (30 min) Overview talks 1  |   |   |              |   | Summary Talks 1:  |
| 08:30-10:30                    |              | -Liantao Wang (35+5 min) -Karsten Heeger (35+5 min)  Sponsor talk 1: Dual Rainbow Tech (10 min)                           | Overview talks 5: -Jonathan Link (35+5 min) -Kaixuan Ni (35+5 min) -Xiaohu Sun (35+5 min)                       | Highlight talks 3: -Jia Liu(35+5 min) -Yinghui Guan (35+5 min) -Liang Sun (35+5 min)                            |              | Highlight talks 5: -Xin Qian (35+5 min) -Armani Esmaili (35+5 min) -Ramesh Koirala (35+5 min) | -Gang Li (25+5 min) -Wei Wang (25+5 min) -Wenbin Qian (25+5 min) -Zhao-Huan Yu (25+5 min)                 |
| 10:30-11:00                    |              | Group photo<br>Coffee break (30 min)  | Coffee brea   | ak (30 min)   |              | Coffee brea   | ak (30 min)   |
| 11:00-12:20                    |              | Overview talk 2 & Highlight 1<br>-Shun Zhou (35+5 min)<br>-Yee Bob Hsiung (35+5 min)                                      | Highlight talks 2:<br>-Jiang-Hao Yu (35+5 min)<br>-Yury Kolomensky (35+5<br>min)                                | Highlight talks 4:<br>-Chen Wu (35+5 min)<br>-Lucang jin (35+5 min)   |              | Highlight talks 6:<br>-Qing Lin (35+5 min)<br>-Yusheng Wu (35+5 min)                          | Summary Talks 2:<br>-Zhe Wang (25+5 min)<br>-Best Poster Winners (40<br>min)<br>-Anatael Cabrera (10 min) |
| 12:20-14:00                    | Registration | Lunch (100 min)<br>(The 4th floor of Ruohai<br>Restaurant)  | Sponsor talk 3: Hamamatsu<br>(10 min)<br>Lunch (90 min)<br>(The 4th floor of Ruohai<br>Restaurant)              | Lunch (100 min)<br>(The 4th floor of Ruohai<br>Restaurant)  | Excursions   | Lunch (1<br>(The 4th floor of R   | •   |
| 14:00-15:30                    |              | Overview talks 3: Flavour & Precision Physics -Xiao-Gang He (35+5 min) -Hang Yin (35+5min)  Sponsor talk 2: NNVT (10 min) | Parallel talks 1: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min) -Nu Tech (100 min) | Parallel talks 3: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min) -Nu Tech (100 min) |              | Parallel talks 5: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min)  |   |
| 15:40 - 16:10                  |              | Poster session & Coffee   | Coffee brea   | ak (30 min)   |              | Coffee break (30 min)   |   |
| 16:10 - 16:30<br>16:30 - 17:50 |              | Overview talks 4: Astro-particle Physics & Cosmology -Yvonne Wong (35+5 min) -Shiqi Yu (35+5 min)                         | Parallel talks 2: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min) -Nu Tech (100 min) | Parallel talks 4: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min) -Nu Tech (100 min) |              | Parallel talks 6: -EW (100 min) -Neutrino (100 min) -Flavour (100 min) -Astro-Cosm (100 min)  |   |
| 18:00 - 22:00                  | Reception    | Dinner  |   | Dinner  |              | Banquet   |   |

# July 3, 2023 (Monday)

| Time          | Торіс  | Speaker                             | Chair         | Location                         |
|---------------|--|-------------------------------------|---------------|----------------------------------|
| 08:30 - 09:00 | Welcome  | Wei W                               | Vang          |                                  |
| 09:00 - 09:40 | Overview of the future directions of particle physics (remote) | Liantao Wang                        |               | Room C203,                       |
| 09:40 - 10:20 | Neutrino Physics: Experiment (remote)                          | Karsten Heeger                      | Wei Wang      | Haiqin Building #6               |
| 10:20 - 10:30 | Sponsor talk 1: Dual Rainbow Tech                              | Dual Rainbow                        |               |                                  |
| 10:30 - 11:00 | Group pho  | ık                                  |               |                                  |
| 11:00 - 11:40 | Neutrino Physics: Theory                                       | Shun Zhou                           | - Jiajie Ling | Room C203,                       |
| 11:40 - 12:20 | Status and prospects of JUNO                                   | Yee Bob Hsiung                      | Julie Ellig   | Haiqin Building #6               |
| 12:20 - 14:00 | Lunch  | The 4th floor,<br>Ruohai Restaurant |               |                                  |
| 14:00 - 14:40 | Flavor and Precision Physics: Theory                           | Xiao-Gang He                        |               | Room C203,<br>Haiqin Building #6 |
| 14:40 - 15:20 | Flavor and Precision Physics: Experiment                       | Hang Yin                            | Liang Sun     |                                  |
| 15:20 - 15:30 | Sponsor talk 2: NNVT   | NNVT                                |               |                                  |
| 15:30 - 16:30 | Poster sess  | ion & Coffee bre                    | ak            |                                  |
| 16:30 - 17:10 | Cosmological implications for neutrino physics                 | Yvonne Wong                         | Ion Homeun    | Room C203,                       |
| 17:10 - 17:50 | Recent results from IceCube with GeV to PeV neutrinos          | Shiqi Yu                            | Jan Hamann    | Haiqin Building #6               |
| 18:00 - 20:00 |  | Dinner                              |               |                                  |

# **July 4, 2023 (Tuesday)**

| Time          | Торіс  | Speaker                                    | Chair                            | Location                         |
|---------------|--|--|----------------------------------|----------------------------------|
| 08:30 - 09:10 | Neutrino Applications: From Science Fiction to Reality       | Jonathan Link                              |                                  |                                  |
| 09:10 - 09:50 | CEvNS with Noble Liquids                                     | Kaixuan Ni                                 | Wei Wang                         | Room C203,<br>Haiqin Building #6 |
| 09:50 - 10:30 | Experimental overview of EW and BSM physics at CMS and ATLAS | Xiaohu Sun                                 |                                  |                                  |
| 10:30 - 11:00 | Co   | offee break                                |                                  |                                  |
| 11:00 - 11:40 | Effective Field Theories for Weak Interactions and Neutrinos | Jiang-Hao Yu                               |                                  |                                  |
| 11:40 - 12:20 | Status and Prospect of Double Beta Decay<br>Experiment       | Yury<br>Kolomensky                         | Ke Han                           | Room C203,<br>Haiqin Building #6 |
| 12:20 - 12:30 | Sponsor talk 3: Hamamatsu                                    | Hamamatsu                                  |                                  |                                  |
| 12:20 - 14:00 | Lunch  | The 4th floor,<br>Ruohai Restaurant        |                                  |                                  |
|               | Parallel talks 1: Electroweak Interactions                   |  | Room B210,<br>Haiqin Building #6 |                                  |
|               | Parallel talks 1: Neutrino Physics                           | Refer to the schedule for Parallel talks 1 |                                  | Room C203,<br>Haiqin Building #6 |
| 14:00 - 15:40 | Parallel talks 1: Flavour & Precision Physics                |  |                                  | Room A280,<br>Haiqin Building #6 |
|               | Parallel talks 1: Astro-particle Physics & Cosmology         |  | Room A503,<br>Haiqin Building #6 |                                  |
|               | Parallel talks 1: Applications of Nuclear<br>Technology      |  |                                  | Room A236,<br>Haiqin Building #6 |
| 15:40 - 16:10 | Co   | offee break                                |                                  |                                  |
|               | Parallel talks 2: Electroweak Interactions                   |  |                                  | Room B210,<br>Haiqin Building #6 |
|               | Parallel talks 2: Neutrino Physics                           |  |                                  | Room C203,<br>Haiqin Building #6 |
| 16:10 - 17:50 | Parallel talks 2: Flavour & Precision Physics                | Refer to the sched                         |                                  | Room A280,<br>Haiqin Building #6 |
|               | Parallel talks 2: Astro-particle Physics & Cosmology         | -  |                                  | Room A503,<br>Haiqin Building #6 |
|               | Parallel talks 2: Applications of Nuclear                    |  | Room A236,<br>Haiqin Building #6 |                                  |

# July 5, 2023 (Wednesday)

| Time          | Торіс   | Speaker                                    | Chair                            | Location                         |
|---------------|---|--|----------------------------------|----------------------------------|
| 08:30 - 09:10 | The progress of Electroweak and Beyond the Standard Model studies at CEPC | Jia Liu                                    |                                  |                                  |
| 09:10 - 09:50 | Recent measurements of CP violation                                       | Yinghui Guan                               | Zhen Hu                          | Room C203,<br>Haiqin Building #6 |
| 09:50 - 10:30 | Lepton Favor Universality experimental highlights                         | Liang Sun                                  |                                  |                                  |
| 10:30 - 11:00 | C   | offee break                                |                                  |                                  |
| 11:00 - 11:40 | Charged Lepton Flavour Violation Experiments                              | Chen Wu                                    | Dexu Lin                         | Room C203,                       |
| 11:40 - 12:20 | Muon g-2 theory overview  | Luchang Jin                                | BONG EM                          | Haiqin Building #6               |
| 12:20 - 14:00 | Lunch   | The 4th floor,<br>Ruohai Restaurant        |                                  |                                  |
|               | Parallel talks 3: Electroweak Interactions                                |  | Room B210,<br>Haiqin Building #6 |                                  |
|               | Parallel talks 3: Neutrino Physics  | Refer to the schedule for Parallel talks 3 |                                  | Room C203,<br>Haiqin Building #6 |
| 14:00 - 15:40 | Parallel talks 3: Flavour & Precision Physics                             |  |                                  | Room A280,<br>Haiqin Building #6 |
|               | Parallel talks 3: Astro-particle Physics & Cosmology                      |  |                                  | Room A503,<br>Haiqin Building #6 |
|               | Parallel talks 3: Applications of Nuclear Technology                      |  |                                  | Room A236,<br>Haiqin Building #6 |
| 15:40 - 16:10 | C   | offee break                                |                                  |                                  |
|               | Parallel talks 4: Electroweak Interactions                                |  |                                  | Room B210,<br>Haiqin Building #6 |
|               | Parallel talks 4: Neutrino Physics  |  |                                  | Room C203,<br>Haiqin Building #6 |
| 16:10 - 17:50 | Parallel talks 4: Flavour & Precision Physics                             | Refer to the sched                         |                                  | Room A280,<br>Haiqin Building #6 |
|               | Parallel talks 4: Astro-particle Physics & Cosmology                      |  |                                  | Room A503,<br>Haiqin Building #6 |
|               | Parallel talks 4: Applications of Nuclear Technology                      |  | Room A236,<br>Haiqin Building #6 |                                  |
| 18:00 - 20:00 |   | Dinner                                     |                                  |                                  |

# July 7, 2023 (Friday)

| Time          | Торіс  | Speaker                  | Chair                            | Location                            |
|---------------|--|--------------------------|----------------------------------|-------------------------------------|
| 08:30 - 09:10 | The Deep Underground Neutrino Experiment   | Xin Qian                 |                                  |                                     |
| 09:10 - 09:50 | Multi-messenger approach in probing the high energy universe: the case of neutrinos and gamma-ray (remote) | Armani Esmaili           | Lili Yang                        | Room C203,<br>Haiqin Building #6    |
| 09:50 - 10:30 | The Giant Radio Array for Neutrino Detection (GRAND)   | Ramesh Koirala           |                                  |                                     |
| 10:30 - 11:00 | Co   |                          |                                  |                                     |
| 11:00 - 11:40 | Dark matter direct search experiments  | Qing Lin                 | Jia Liu                          | Room C203,                          |
| 11:40 - 12:20 | Progress in the measurements of the W mass, the Z-boson transverse momentum and alpha_S                    | Yusheng Wu               | Jia Liu                          | Haiqin Building #6                  |
| 12:20 - 14:00 | Lunch  |                          |                                  | The 4th floor, Ruohai<br>Restaurant |
|               | Parallel talks 5: Electroweak Interactions   |                          | Room A542,<br>Haiqin Building #6 |                                     |
|               | Parallel talks 5: Neutrino Physics   |                          | Room C203,<br>Haiqin Building #6 |                                     |
| 14:00 - 15:40 | Parallel talks 5: Flavour & Precision Physics  | Refer to the sched talks | Room A631,<br>Haiqin Building #6 |                                     |
|               | Parallel talks 5: Astro-particle Physics & Cosmology   |                          | Room C503,<br>Haiqin Building #6 |                                     |
|               |  |                          |                                  |                                     |
| 15:40 - 16:10 | Co   | offee break              |                                  |                                     |
|               | Parallel talks 6: Electroweak Interactions   |                          |                                  | Room A542,<br>Haiqin Building #6    |
|               | Parallel talks 6: Neutrino Physics   |                          |                                  | Room C203,<br>Haiqin Building #6    |
| 16:10 - 17:50 | Parallel talks 6: Flavour & Precision Physics  | Refer to the sched talks |                                  | Room A631,<br>Haiqin Building #6    |
|               | Parallel talks 6: Astro-particle Physics & Cosmology   |                          | Room A503,<br>Haiqin Building #6 |                                     |
|               |  |                          |                                  |                                     |
| 18:30 - 21:00 |  | Banquet                  |                                  |                                     |

24 | Timetable

July 7, 2023 (Friday) Parallel Session

The Workshop on Application of HEP Technology In Particle Facilities

| Time          | The Workshop on Application of HEP  Topic   | Speaker                | Chair              | Location                            |
|---------------|---|------------------------|--------------------|-------------------------------------|
| 09:00~09:05   | Welcome speech  | Dongbai Sun            |                    |                                     |
| 09:05~09:30   | Synchrotron X-Ray Powder Diffraction  | Chiu Chung Tang        | Yitao              | Room A136,                          |
| 09:30~09:55   | A smart and versatile scattering beamline platform forindustrial and scientific applications                        | Lei Li                 | Cui                | Haiqin Building #6                  |
| 09:55~10:20   | Neutron/ synchrotron X-ray powder diffraction on a yttriumchromium oxide  | Haifeng Li             |                    |                                     |
| 10:20~10:35   | C   |                        |                    |                                     |
| 10:35~11:00   | Introduction of soft X-ray spectroscopy and plans in Shenzhen Innovation Light-Source Facility                      | Yitao Cui              |                    |                                     |
| 11:00~11:25   | X-ray total scattering method and its applications  | Jo-Chi Tseng           | Chiu Chung<br>Tang | Room A136,<br>Haiqin Building #6    |
| 11:25~11:50   | Controllable Synthesis and In situ Study of<br>Layered Oxide Cathodes for Li-Ion Batteries                          | Mingjian Zhang         | 5                  |                                     |
| 12:20 - 14:00 | Lunch   |                        |                    | The 4th floor, Ruohai<br>Restaurant |
| 14:00~14:20   | The Role of X-ray Absorption Spectroscopy in Developing Novel Heterogeneous Catalysts.                              | Molly Meng-<br>Jung Li |                    |                                     |
| 14:20~14:40   | Synchrotron X-ray spectroscopy for quantum materials research   | Haoxiang Li            |                    |                                     |
| 14:40~15:00   | Synchrotron radiation X-ray scattering characterization: sample cells and their applications in the in situ studies | Peng Zhang             | Yandong<br>Wang    |                                     |
| 15:00~15:20   | Characterization of nanostructure in stainless steels by small angle neutron scattering (SANS)                      | Xin Xu                 |                    | D 4106                              |
| 15:20~15:40   | High energy synchrotron radiation X-ray characterizations for the advanced fabrication industry                     | Fanqiang Meng          |                    | Room A136,<br>Haiqin Building #6    |
| 15:40~16:00   | Introduction of hard X-ray spectroscopy<br>beamlines in Shenzhen Innovation Light-Source<br>Facility                | Chunzhen Yang          | F.J.,              |                                     |
| 16:00~16:25   | Localized Deformation and Damage<br>Characterized by Synchrotron -Based X-ray<br>Diffraction                        | Yandong Wang           | Edman<br>Tsang     |                                     |
| 16:25~17:30   | Salon: "Development of SR technology in the G   | Freater Bay Area"      |                    |                                     |
| 18:30 - 21:00 |   | Banquet                |                    |                                     |

Note: This Parallel Session is convened by the Institute of Advanced Science Facilities, Shenzhen (IASF) and focuses on the "Application of High Energy Physics Technology in Material Sciences". It can be considered as a component of the "Applications of Nuclear Technology" parallel session in WIN2023.

July 8, 2023 (Saturday)

| Time          | Торіс  | Speaker         | Chair       | Location                            |
|---------------|--|-----------------|-------------|-------------------------------------|
| 08:30 - 09:00 | Electroweak Interactions Summary   | Gang Li         |             |                                     |
| 09:00 - 09:30 | Neutrino Physics Summary   | Wei Wang        |             | Room C203,                          |
| 09:30 - 10:00 | Flavour & Precision Physics Summary  | Wenbin Qian     | Ke Han      | Haiqin Building #6                  |
| 10:00 - 10:30 | Astro-particle Physics & Cosmology Summary                                     | Zhao-Huan Yu    |             |                                     |
| 10:30 - 11:00 | C  | offee break     |             |                                     |
| 11:00 - 11:30 | Applications of Nuclear Technology Summary                                     | Zhe Wang        |             |                                     |
| 11:30 - 12:10 | Present the Best Poster Award and have the award recipients give presentations | Winners         | Yuehuan Wei | Room C203,<br>Haiqin Building #6    |
| 12:10 - 12:20 | Next WIN   | Anatael Cabrera |             |                                     |
| 12:20 - 14:00 | Lunch  |                 |             | The 4th floor, Ruohai<br>Restaurant |

# July 4, 2023 (Tuesday) Parallel talks 1

| Topic                             | Title  | Speaker  | Chair   | Time          |
|-----------------------------------|--|--|---|---------------|
|                                   | HVV, Higgs mass, CP  | Qianying Guo   |   | 14:00 - 14:25 |
| Electroweak                       | Higgs fermion at the CMS experiment  | Zhiyuan Li   | Yusheng Wu  Xiang Xiao  Avelino Vicente  Ramesh Koirala | 14:25 - 14:50 |
| Interactions                      | Searches for new physics in the Higgs sector   | Lailin Xu  |   | 14:50 - 15:15 |
|                                   | Searches for new phenomena with the ATLAS detector   | Oliver Stelzer-<br>Chilton   |   | 15:15 - 15:40 |
|                                   | Latest results from the CUORE experiment   | Claudia Tomei  |   | 14:00 - 14:25 |
| Neutrino                          | Latest result of neutrinoless double-beta<br>decay search by KamLAND -Zen  | rinoless double-beta mLAND -Zen  Beta Decay na  beta decay Long Ma  Xiang Xi  Xiang Xi |   | 14:25 - 14:50 |
| Physics                           | Neutrinoless Double Beta Decay<br>Experiments in China   | Shaobo Wang  |   | 14:50 - 15:15 |
|                                   | The CUPID double beta decay experiment   | Claudia Tomei  S double-beta D -Zen  Nanami Kawada  Nanami Kawada  Nanami Kawada  Xiang  Nanami Kawada  Xiang  Nanami Kawada  Xiang  Nanami Kawada  Xiang  Necay  Long Ma  Zehui Lu  PhiPHi decay  Neutral Meson  Yin-Fa Shen  Sogenesis and  Dexu Lin  to the origin of eutrinos  y Astrophysical   |   | 15:15 - 15:40 |
| Flavour &<br>Precision<br>Physics | Charm meson decays at BESIII   | Zehui Lu   | Avelino Vicente   | 14:00 - 14:25 |
|                                   | CPV measurement in Bs2PhiPHi decay   | Kechen Li  |   | 14:25 - 14:50 |
|                                   | CP Violation Induced by Neutral Meson<br>Mixing Interference   | Yin-Fa Shen  |   | 14:50 - 15:15 |
|                                   | Recent Results of \$B\$ Mesogenesis and Dark Sector at \$BABAR\$   | Avelino Vicen  Yin-Fa Shen  Yin-Fa Shen  SB\$ Mesogenesis and BABAR\$  Dexu Lin  |   | 15:15 - 15:40 |
| 1- 1                              | Multi-messenger approach to the origin of<br>high energy cosmic rays/neutrinos   | Zhuo Li  |   | 14:00 - 14:25 |
| Astro-                            | Charm meson decays at BESIII  Zehui Lu  CPV measurement in Bs2PhiPHi decay  CP Violation Induced by Neutral Meson Mixing Interference  Recent Results of \$B\$ Mesogenesis and Dark Sector at \$BABAR\$  Multi-messenger approach to the origin of high energy cosmic rays/neutrinos  The Future of High-Energy Astrophysical Neutrino Measurements: Standard Model  Ningqiang Song  article  Rechen Li  Article  Article  Article  CPV measurement in Bs2PhiPHi decay  Yin-Fa Shen  Dexu Lin  Zhuo Li  Ningqiang Song  Article  Article  Article  Ningqiang Song  Article |  | 14:25 - 14:50   |               |
| Physics &<br>Cosmology            | Signature of Collapsars as Sources for<br>High-energy Neutrinos and r-process<br>Nuclei  | Gang Guo   | Xiang Xiao  Avelino Vicente  Ramesh Koirala             | 14:50 - 15:15 |
|                                   | Neutrino Signals From Accretion-Induced<br>Collapse of White Dwarfs  | Chun Ming Yip  |   | 15:15 - 15:40 |
|                                   | The JUNO-TAO detector is a unique tool for studying and monitoring nuclear   | Aleksandr Chepurnov  |   | 14:00 - 14:25 |
| Applications                      | The CHANDLER Reactor Neutrino<br>Detector Technology   | Jonathan Link  | Yusheng Wu  Xiang Xiao  Avelino Vicente                 | 14:25 - 14:50 |
| of Nuclear<br>Technology          | Geoneutrino measurement with Borexino  | Xuefeng Ding   | Kan Han   | 14:50 - 15:15 |
|                                   | Latest result of geoneutrino measurement with KamLAND (remote)   | Nanami Kawada  | Xiang Xiao  Avelino Vicente  Ramesh Koirala             | 15:15 - 15:40 |

# July 4, 2023 (Tuesday) Parallel talks 2

| Topic   | Title  | Speaker   | Chair   | Time          |
|---|--|---|---|---------------|
| Delectroweak Interactions A A A A A A A A A A A A A A A A A A A   | Double aligned two Higgs doublet models at LHC   | Michihisa Takeuchi  |   | 16:10 - 16:35 |
| Electroweak   | Dark sector and Axion-like particle search at BESIII   | Houbing Jiang   | Chair  Gang Li  Claudia Tomei  Wenbin Qian  Hao-Ning He | 16:35 - 17:00 |
| Interactions  | ALP explanation to the muon (g-2) and its test at future Tera-Z and Higgs factories  | Xiaoping Wang   | Gang Li   | 17:00 - 17:25 |
|   | A concise review on some Higgs-related new<br>physics models in light of current experiments   | Pengxuan Zhu  | Gang Li  Claudia Tomei  Wenbin Qian                     | 17:25 - 17:50 |
|   | Current Results from the NOvA Experiment   | Alec Habig  |   | 16:10 - 16:35 |
| Neutrino  | Hyper-Kamiokande experiment  | Yohei Noguchi   | Gang Li  Claudia Tomei  Wenbin Qian  Hao-Ning He        | 16:35 - 17:00 |
| Physics   | Neutrino oscillation physics of the DUNE experiment  | Wenjie Wu   |   | 17:00 - 17:25 |
|   | MicroBooNE results on Short Baseline Neutrino<br>Anomalies   | Xiangpan Ji   |   | 17:25 - 17:50 |
| Recent results of the exotic hadron studies at CMS  Zhen Hu  Flavour & Precision Physics  TMD wave functions and soft functions at one- | Hyperon physics at BESIII  | Hong-Fei Shen   |   | 16:10 - 16:3: |
|   | Recent results of the exotic hadron studies at CMS   | Zhen Hu   |   | 16:35 - 17:0  |
|   | Dongliang Zhang  | Wenbin Qian   | 17:00 - 17:2:   |               |
| Thysics   | Recent results of the exotic hadron studies at CMS  Zhen Hu  Flavour & Precision Physics  TMD wave functions and soft functions at one- Zhifu Deng |   | 17:25 - 17:50   |               |
|   | Search for rare charm decays at BESIII   | Yonghua Zhan  | Claudia Tomei  Wenbin Qian  Hao-Ning He                 | 17:50 - 18:1: |
|   | Latest Results from AMS on the International<br>Space Station  | Zuhao Li  |   | 16:10 - 16:3: |
| Astro-particle  | The DArk Matter Particle Explorer (DAMPE): 7 years in Space  | Houbing Jiang  It at Xiaoping Wang  Pengxuan Zhu  Alec Habig  Yohei Noguchi  Wenjie Wu  ino Xiangpan Ji  Hong-Fei Shen  CMS Zhen Hu  HCb Dongliang Zhang  Yonghua Zhan  Zuhao Li  D: 7 Chuan Yue  Ramiro Torres- Escobedo  Zhe Li  Ruohan Gao  Zhe Wang  Ran Han  Gang Li  Gang Li  Gang Li  Hau-Ning Li  Li  Ruohan Gao  Jonathan Link | 16:35 - 17:00   |               |
| Physics &<br>Cosmology  | HAWC Gamma -ray Observatory  |   | Hao-Ning He   | 17:00 - 17:2: |
|   | Gamma -ray astronomy results from LHAASO   | Zhe Li  |   | 17:25 - 17:50 |
|   | Geo-neutrino signal at JUNO predicted by geological models   | Ruohan Gao  |   | 16:10 - 16:3: |
| pplications of  | Research and Design of the Jinping Neutrino<br>Experiment  | Zhe Wang  |   | 16:35 - 17:00 |
| Nuclear<br>Technology   | Muon Radiography and Its Applications  | Ran Han   | Jonathan Link   | 17:00 - 17:2: |
|   | Cryogenic phonon-scintillating bolometer<br>technology and applications  | Mingxuan Xue  |   | 17:25 - 17:50 |

#### July 5, 2023 (Wednesday) Parallel talks 3

| Topic                                       | Title   | Speaker  | Chair   | Time          |
|---|---|--|---|---------------|
|   | SMEFT at future lepton colliders  | Jiayin Gu  |   | 14:00 - 14:25 |
| Electroweak                                 | The interplay of EWPO and top interactions in SMEFT fits at Electroweak Interactions  | Yiming Liu   | Chair  Bin Yan  Fei Gao  Hailong Ma   | 14:25 - 14:50 |
| Interactions                                | Top quark mass measurements at CEPC   | Xiaohu Sun   |   | 14:50 - 15:15 |
|   | Recent di-boson and tri-boson measurements at CMS   | Zhe Guan   |   | 15:15 - 15:40 |
|   | First Physics Results from the FASER Experiment   | Zhen Hu  |   | 14:00 - 14:25 |
| Neutrino                                    | A study of time variations of solar neutrino flux using 5,803 live days of Super-Kamiokande data                                | Jeong Yeol Yang  | Fei Gao   | 14:25 - 14:50 |
| Physics                                     | T2K latest neutrino oscillation results   | Weijun Li  | Tel Gao   | 14:50 - 15:15 |
|   | The European Spallation Source neutrino Super<br>Beam plus Project  | Tamer Tolba  |   | 15:15 - 15:40 |
|   | Charmed baryon physics at BESIII  | Lei Li   |   | 14:00 - 14:25 |
| Flavour &                                   | Recent results from the Belle II experiment   | Chengping Shen   | H-H M-  | 14:25 - 14:50 |
| Physics                                     | Recent results from the Belle II experiment  Chengping Shen  Chengping Shen  The heavy flavor rare decays at CMS  Chuqiao Jiang | Hailong Ma   | 14:50 - 15:15   |               |
|   | Light quark decays of doubly heavy baryons in light front approach  | the days of Super-Ramiokande data  Weijum Li  Spallation Source neutrino Super oject  Tamer Tolba  Lei Li  Spandation Source neutrino Super oject  Tamer Tolba  Ten Li  Chengping Shen  Hailong  Wor rare decays at CMS  Chuqiao Jiang  Chang Yang  Yeloor for Primordial Black Holes reches  Ten Growth Liu  Ten Liu  Ten Growth Liu  Ten Liu  Ten Growth Liu  Ten Liu  Ten Chang Yang  Ten Growth Liu  Ten Liu  Ten Chang Yang  Ten Chang Yang |   | 15:15 - 15:40 |
|   | The Sensitivity Floor for Primordial Black Holes<br>Neutrino Searches   | Qishan Liu   |   | 14:00 - 14:25 |
| stro-particle                               | Solar atmospheric neutrinos and implications for dark matter  | Kenny Chun Yu Ng   | Fei Gao  Tolba  Li  Golba  Li  Golba  Hailong Ma  Jiang  Yang  Liu  n Yu Ng  Zhuo Li  Huang | 14:25 - 14:50 |
| Physics &<br>Cosmology                      | Supernova neutrinos as a precise probe of nuclear neutron skin  | Xurun Huang  | Zhuo Li   | 14:50 - 15:15 |
|   | Cosmology with the Square Kilometre Array   | Xin Wang   |   | 15:15 - 15:40 |
|   | The COHERENT experimental program at the SNS  | Keyu Ding  |   | 14:00 - 14:25 |
| pplications of                              | CEvNS experiment proposal at CSNS   | Qian Liu   | Bin Yan  Bin Yan  Fei Gao  Pagenta Hailong Ma  Reg Zhuo Li                                  | 14:25 - 14:50 |
| Nuclear<br>Technology                       | Progress of CICENNS   | Soo-Bong Kim   | Qing Lin  | 14:50 - 15:15 |
| Physics & Cosmology  pplications of Nuclear | A Reactor -Neutrino -Nucleus Coherent Scattering experiment with dual phase argon technology                                    | Yong-Peng Zhang  |   | 15:15 - 15:40 |

### July 5, 2023 (Wednesday) Parallel talks 4

| Topic  | Title   | Speaker   | Chair  | Time          |
|--|---|---|--|---------------|
|  | Measurements of electroweak diboson production in association with two jets in ATLAS  | Yusheng Wu  |  | 16:10 - 16:35 |
| Electroweak  | Measurement of multiboson production in ATLAS   | Hao Xu  |  | 16:35 - 17:00 |
| Interactions   | WZ cross section measurements at LHCb   | Xiao Wang   | Xiaohu Sun   | 17:00 - 17:25 |
|  | LHC and Future High Energy Colliders: Probing the nTGC New Physics  | Rui-Qing Xiao   | Shaobo Wang  Chen Wu  Qian Liu   | 17:25 - 17:50 |
|  | Status of the Measurement of Neutrinos Elastically<br>Scattering Off Electrons in the NOvA Near<br>Detector                                   | Yiwen Xiao  |  | 16:10 - 16:35 |
| Neutrino   | CDEX -300v program searching for Ge-76 neutrinoless double beta decay   | surement of Neutrinos Elastically extrons in the NOvA Near  Yiwen Xiao  Yiwen Xiao  Wenhao Dai  Wenhao Dai  Shaobo Wang  Martinoless double beta decay with and outlook  O project  Yuduo Guan  Wenhao Dai  Shaobo Wang  Yuduo Guan  Yee Bob Hsiung  Ments with Kaons at CERN  Cristina Biino  Chen Wu  Mental Pang | al I w   | 16:35 - 17:00 |
| Physics  | The search for neutrinoless double beta decay with LEGEND: status and outlook   |   | Shaobo Wang  | 17:00 - 17:25 |
|  | Overview of nEXO project  |   |  | 17:25 - 17:50 |
| Search for Rare Neutral Kaon Decays at JPARC KOTO Experiment  Precision measurements with Kaons at CERN  Precision  Physics Searches for lepton flavour universality violation with the ATLAS detector |   | Yee Bob Hsiung  |  | 16:10 - 16:35 |
|  | Precision measurements with Kaons at CERN   | Cristina Biino  |  | 16:35 - 17:00 |
|  | Hao Pang  | Chen Wu   | 17:00 - 17:25  |               |
|  | Models for the Muon EDM   | Yuichiro Nakai  |  | 17:25 - 17:50 |
|  | Constraining Particle Dark Matter with eROSITA<br>Early Data  | Chingam Fong  |  | 16:10 - 16:35 |
| stro-particle  | Forbidden Dark Matter Combusted Around<br>Supermassive Black Hole   | Yu Cheng  |  | 16:35 - 17:00 |
| Physics &<br>Cosmology   | Cosmological constraints on supersymmetric superWIMPs   | Jan Hamann  | Chuan Yue  | 17:00 - 17:25 |
|  | Ultra-high-energy Cosmic Ray Outburst from<br>GRB 221009A   | Hao-Ning He   |  | 17:25 - 17:50 |
|  | ReActor neutrino LIquid xenon Coherent<br>Scattering (RELICS) experiment  | Qing Lin  |  | 16:10 - 16:35 |
|  | CONUS experiment: new results and the upgrade campaign to CONUS+  | Kaixiang Ni   | 0  | 16:35 - 17:00 |
| Nuclear<br>Technology  | Search for the coherent elastic neutrino-nucleus<br>scattering and other rare processes in nuGeN<br>experiment at Kalinin nuclear power plant | Alexey Lubashevskiy   | Qian Liu   | 17:00 - 17:25 |
|  | RECODE program for reactor neutrino CEvNS detection with PPC Germanium detector   | Litao Yang  | Xiao  Ziao  Dai Shaobo Wang  arshall  Suan  Isiung  Biino Chen Wu  ng  Nakai  Fong  ng Chuan Yue  ann  g He  iin Ni Qian Liu  shevskiy | 17:25 - 17:50 |

# July 7, 2023 (Friday) Parallel talks 5

| Topic   | Title  | Speaker            | Chair   | Time          |
|---|--|--------------------|---|---------------|
|   | Precise prediction for the top quark width   | Jian Wang          |   | 14:00 - 14:25 |
| Electroweak   | Precise prediction for the top quark width  Application of the jet charge in electroweak and Higgs physics  Search for BSM Higgs at CMS  Fengwangdong Zhang  W mass measurements at LHCb  Light Sterile Neutrinos at Neutrino Oscillation Experiments (remote)  Light Sterile Neutrinos: A Modern Picture and a Model to Evade Cosmology (remote)  Unprecedented Precision on Neutrino Oscillation Parameters using Synergy between DUNE and T2HK (remote)  New physics beyond three neutrino mixing  Yu-Feng Li  Current Status of the COMET Experiment  Expected Direct Search Charged Lepton Flavor Violation Sensitivity in \$\sinmu^+\$\text{\shape and \$\shape \chi^+\$\shape Shihua Huang}}{\text{Decays at Rest}}  Decays at Rest  The Mu3e experiment: physics and status  Physics  Physics  Physics  Physics  Physics Dark Matter, Cosmic Strings, and Gravitational Waves  The XENONnT Experiment: Dark Matter and Beyond  Shixiao Liang  Kenny Ch | Vinoning Wang      | 14:25 - 14:50   |               |
| Interactions  | Search for BSM Higgs at CMS  | Fengwangdong Zhang | Alaoping wang   | 14:50 - 15:15 |
|   | W mass measurements at LHCb  | Menglin Xu         | Chair  Xiaoping Wang  Shun Zhou  Zhengyun You  Kenny Chun Yu Ng | 15:15 - 15:40 |
|   |  | Kevin Kelly        |   | 14:00 - 14:25 |
| N   | Light Sterile Neutrinos: A Modern Picture and a Model to Evade Cosmology (remote)  Unprecedented Precision on Neutrino Oscillation Parameters using Synergy between DUNE and T2HK (remote)  Peter Dentor Sanjib Agarwa T2HK (remote)   | Peter Denton       |   | 14:25 - 14:50 |
| Neutrino Physics  Model to Evade Cosmology (remote)  Unprecedented Precision on Neutrino Osci Parameters using Synergy between DUNE T2HK (remote) | Parameters using Synergy between DUNE and  | Sanjib Agarwalla   | Shun Zhou   | 14:50 - 15:15 |
|   | New physics beyond three neutrino mixing   | Yu-Feng Li         |   | 15:15 - 15:40 |
|   | Current Status of the COMET Experiment   | Yu Xu              | Shun Zhou  Zhengyun You  Kenny Chun Yu                          | 14:00 - 14:25 |
| Flavour &<br>Precision  | Violation Sensitivity in \$\mu^+\$ and \$\pi^+\$   | Shihua Huang       |   | 14:25 - 14:50 |
| Physics   | The Mu3e experiment: physics and status  | Yifeng Wang        |   | 14:50 - 15:15 |
|   | Higgs LFV decays   | Avelino Vicente    |   | 15:15 - 15:40 |
|   |  | Zhao-Huan Yu       |   | 14:00 - 14:25 |
| stro-particle   | Application of the jet charge in electroweak and Higgs physics  Search for BSM Higgs at CMS  Search for BSM Higgs at CMS  Fengwangdong Zhang  W mass measurements at LHCb  Light Sterile Neutrinos at Neutrino Oscillation Experiments (remote)  Light Sterile Neutrinos: A Modern Picture and a Model to Evade Cosmology (remote)  Unprecedented Precision on Neutrino Oscillation Parameters using Synergy between DUNE and T2HK (remote)  New physics beyond three neutrino mixing  Yu-Feng Li  Current Status of the COMET Experiment  Yu Xu  Expected Direct Search Charged Lepton Flavor Violation Sensitivity in \$\text{Nmu}^+\$ and \$\text{Npi}^+\$ Shihua Huang Decays at Rest  The Mu3e experiment: physics and status  Yifeng Wang  Higgs LFV decays  The Mu3e experiment: Dark Matter and Beyond  The DarkSide -20k experiment  Opportunities to light dark matter searches with  Maxim Grannov  | Kenny Chun Yu      | 14:25 - 14:50   |               |
| Cosmology   | The DarkSide -20k experiment   | Tianyu Zhu         | Ng  | 14:50 - 15:15 |
|   |  | Maxim Gromov       | Shun Zhou Zhengyun You Kenny Chun Yu                            | 15:15 - 15:40 |

# July 7, 2023 (Friday) Parallel talks 6

| Topic                                    | Title  | Speaker                   | Chair         | Time          |
|--|--|---------------------------|---------------|---------------|
| Electroweak<br>Interactions              | Spontaneous CP violation and supersymmetry   | Norimi Yokozaki           | Wei Liu       | 16:10 - 16:35 |
|  | EWPT & Baryogenesis  | Huaike Guo                |               | 16:35 - 17:00 |
|  | Electroweak sphaleron under multiple-step EWPT with the general high dimensional SU(2) multiplet extension to the Standard model | Yanda Wu                  |               | 17:00 - 17:2: |
|  | Light dark matter around 100 GeV from the inert doublet model  | Leila Kalhor              |               | 17:25 - 17:50 |
| Neutrino<br>Physics                      | Measuring low energy reactor neutrinos with CEvNS  | Jiajun Liao               | Jiangming Yao | 16:10 - 16:3  |
|  | The indispensable role of neutrinos in the global fit of SMEFT   | Yong Du                   |               | 16:35 - 17:0  |
|  | EFT analysis of Neutrino Experiments (remote)  | Martin Gonzalez<br>Alonso |               | 17:00 - 17:2  |
|  | Neutrino magnetic moment portal: New constraints and multi-messenger opportunities   | Ying-Ying Li              |               | 17:25 - 17:5  |
|  | Recent results from Daya Bay   | Ming-chung Chu            |               | 17:50 - 18:1  |
| Flavour &<br>Precision<br>Physics        | New physics interpretations of \$R(D^{(*)})\$ anomaly and their exciting predictions   | Teppei Kitahara           | TBD           | 16:10 - 16:3  |
|  | Testing Lepton Flavor Universality at Future Z<br>Factories  | Tsz Hong Kwok             |               | 16:35 - 17:0  |
|  | Muon g-2 experiment at Fermilab  | Cheng Chen                |               | 17:00 - 17:2  |
|  | A quark and lepton model with flavor specific DM and muon \$g-2\$ in modular \$A_4\$ and hidden \$U(1)\$ symmetries              | Yuichiro Nakai            |               | 17:25 - 17:5  |
| Astro-particle<br>Physics &<br>Cosmology | First results from the LZ dark matter experiment   | Dongqing Huang            | Lili Yang     | 16:10 - 16:3  |
|  | The progress of ALETHEIA, a low-mass dark matter direct detection experiment   | Junhui Liao               |               | 16:35 - 17:0  |
|  |  |                           |               | 17:00 - 17:2  |
|  |  |                           |               | 17:25 - 17:5  |

# **Shuttle bus**

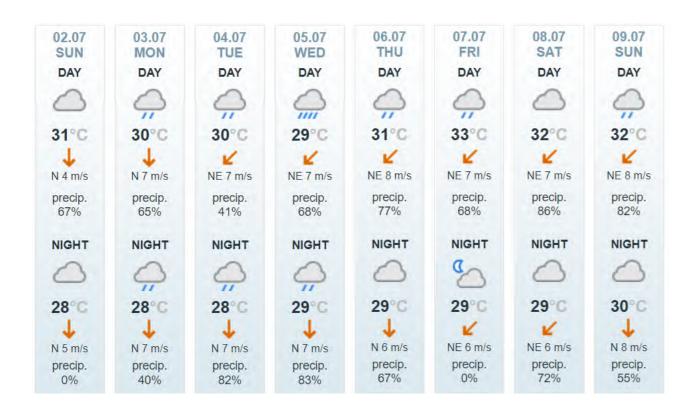
• Complimentary shuttle buses will be available daily between the hotel and the venue in the morning and evening. The estimated travel time for each ride is within 3-8 minutes. Please adhere to the scheduled time for boarding the shuttle buses. Attendees are advised to make arrangements for your own travel if you miss the scheduled time.

#### Meals

- •We have arranged a welcome dinner for all attendees from 6 pm to 8 pm on July 2nd, please feel free to attend the dinner as per your schedule. Breakfast will be provided by the respective hotel, whereas lunch will be served on the 4th floor of Ruohai Restaurant adjacent to the venue.
- Dinner will be provided on select days, with the banquet scheduled on July 7th from 6 pm to 9
- •Stay tuned for further notices.

### Weather

• The conference will be held from July 3rd to July 8th. During the conference, the weather is changeable and mainly characterized by high temperatures and humidity, with the possibility of rain in the morning and evening. We kindly advise all participants to pay attention to sun protection, hydrate frequently, and be prepared for rainy conditions. The weather conditions below are for reference only.



### Instruction

Please join the conference group on the right to receive the latest notice of the conference. (For WeChat users only)



See the conference website for the latest schedule:

https://ifcen.sysu.edu.cn/win2023 https://indico.ihep.ac.cn/e/win2023



For more information about the conference, please scan the QR code.

### **Contacts**

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If you have any questions, please feel free to contact us anytime.

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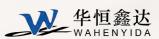
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