

The 2024

International Workshop

on Future Tau Charm Facilities

January 14-18, 2024

Conference Manual



https://indico.pnp.ustc.edu.cn/event/91/

University of Science and Technology of China



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The 2024 International Workshop on Future Tau Charm Facilities

January 14-18, 2024(14 Jan Registration; 15-18 Jan Workshop)
The University of Science and Technology of China

Dear colleagues,

The 2024 International Workshop on Future Tau Charm Facilities (FTCF2024) will be hosted by the University of Science and Technology of China (USTC), in Hefei, China on Jan. 14 - Jan. 18, 2024. The workshop is the 6th in the series of workshops on future tau charm facilities that began in 2015.

In the field of particle physics research, the tau-charm energy region has unique properties, rich frontier physics topics, and great potential for scientific discoveries. The next generation of tau-charm facility projects have been proposed and extensively discussed. With two orders of magnitude higher in luminosity than the currently operating Beijing electron-positron collider (BEPCII), and twice the energy range, the facility will provide a key platform for deepening the study of the internal structure of hadrons, searching for exotic states, and understanding the nature of non-perturbative strong interactions, exploring the asymmetry of matter-antimatter in the universe (CP violation), and probing new physics beyond the standard model. The construction of the accelerator and the detector of the facilities will challenge many of the world's cutting-edge key technologies. The workshop will be dedicated to discuss the highlights of physics in tau-charm energy region, and the key technologies in accelerator and detector.

The relevant details are as follows:

1. Overview:

Workshop Indico: https://indico.pnp.ustc.edu.cn/event/91/

Timetable: https://indico.pnp.ustc.edu.cn/event/91/timetable/?view=standard

2. Registration Date:

- 14 Jan, 14:00-19:00 PM, First-floor lobby at Crowne Plaza Hefei(合肥皇冠假日酒店)
- 14 Jan, 14: 00-19: 00 PM, First-floor lobby at Yueya Jiangnanchun Business Hotel (悦雅江南春商 务酒店)
- 15 Jan, 08: 30-12: 00 AM, The third floor in the podium building of Material Science Research Building, USTC(物质科研裙楼 3 楼)

WeChat Group QR Code (If you use WeChat, please scan the code to join the group for instant notifications)

3. Registration Fee

Registration fee for faculty members and Pos.doc: 2000 CNY (280 USD); Student reduced fee (master or PhD): 1800 CNY (250 USD);



4. Method of payment

1) Bank Transfer

• For RMB:

户 名: 中国科学技术大学 账 号: 184203468850

开户银行:中国银行合肥蜀山支行营业部

联 行 号: 1043 6100 3246

• For US Dollars:

BENEFICIARY: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

ACCOUNT NO: 187203468859

BANK NAME: BANK OF CHINA HEFEI SHUSHAN BRANCH

SWIFT CODE: BKCHCNBJ780

 When paying the registration fee via bank transfer, please add 'Participant's Name + FTCF 2024 + Registration Fee' in the transfer note for identification.

2) On-site payment

On-site payment options include Visa, MasterCard, UnionPay, WeChat Pay, AliPay, and cash, though non-cash methods are preferred.

3) Invoice / Receipt:

- An electronic invoice will be emailed to your registered email address after the conference.
- If you require a physical receipt, please request it from the staff at the time of registration.

5. Accommodation:

Crowne Plaza Hefei(合肥皇冠假日酒店)

Address: Building A, 598 Huangshan Road, Hefei, Anhui Province, China

Telephone: 0551-62971888

Transportation Methods:

1) From Hefei Xinqiao International Airport(合肥新桥国际机场) to Crowne Plaza Hefei(合肥皇冠假日酒店)

Taxi Guide: Take a taxi for approximately 50 minutes (around 70 CNY).

Bus Route: Take Airport Bus Line 4 to Crowne Plaza Hefei Station(皇冠假日酒店站), departing every 20 minutes (ticket price: 25 CNY).

2) From Hefei South Railway Station(合肥南站)to Crowne Plaza Hefei(合肥皇冠假日酒店): Taxi Guide: Take a taxi for approximately 20 minutes (around 25 CNY). Bus Route: Take Bus Route 156 from "Hefei South Railway Station North Square(合肥南站北广场)" to

Bus Route: Take Bus Route 156 from "Hefel South Railway Station North Square (合肥南站北) 场)" to "Huandong Xincun (环东新村)" (operating from 06:00 to 22:00, ticket price: 2 CNY).

3) From Hefei Railway Station(合肥站)to Crowne Plaza Hefei(合肥皇冠假日酒店): Taxi Guide: Take a taxi for approximately 25 minutes (around 30 CNY). Bus Route: Take Bus Route 10 from "Hefei Railway Station(合肥站)" to "Wuzhua Tang(五爪塘)" station (operating from 06:00 to 22:00, ticket price: 2 CNY).

Yueya Jiangnanchun Business Hotel (悦雅江南春商务酒店)

Address: No. 64 Jinzhai Road, Hefei, Anhui Province, China

Telephone: 0551-62186800

Transportation Methods:

1) From Hefei Xinqiao International Airport (合肥新桥国际机场) to Yueya Jiangnanchun Business Hotel(悦雅江南春商务酒店)

Taxi Guide: Take a taxi for approximately 50 minutes (around 80 CNY).

Bus Route: Take Airport Bus Line 1 to "Sanxiaokou(三孝口)" station (departing every 20 minutes), walk 264 meters, take Bus Route 1 to "Jiyansuo (机研所)" station, walk 121 meters (ticket price: 27 CNY).

2) From Hefei South Railway Station (合肥南站) to Yueya Jiangnanchun Business Hotel(悦雅江南春商务酒店):

Taxi Guide: Take a taxi for approximately 20 minutes (around 20 CNY).

Bus Route: Take Hefei Subway Line 5 to "Shisanyuan(市三院)" station, gate 6, walk 17 minutes (ticket price: 2 CNY).

3) From Hefei Railway Station (合肥站) to Yuya Jiangnanchun Business Hotel(悦雅江南春商务酒店): Taxi Guide: Take a taxi for approximately 25 minutes (around 30 CNY).

Bus Route: Take Bus Route 226 from "Hefei Station (合肥站)" to "Jiyansuo (机研所)" station.



(Overview map)

6. Meal:

3F Dining Hall (美食广场), East Campus, USTC (No. 32 on the map)

15 Jan – 16 Jan Dinner Buffet at your hotel

17 Jan Banquet 3F Fenghua Ballroom 3(风华 3 斤)at Crowne Plaza Hefei

18 Jan Dinner Buffet at your hotel

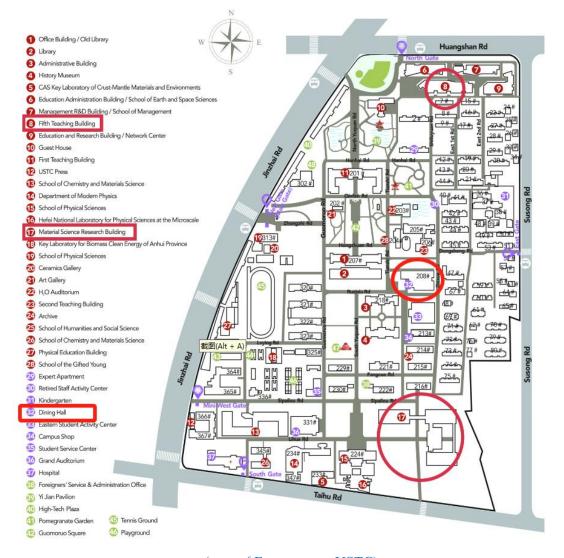
· ·

7. Venue & Campus Gate Access:

• Venue:

Plenary meetings will be held on the third floor in the podium building of Material Science Research Building(物质科研裙楼 3 楼), USTC (No. 17 on the map)

Parallel meetings will be held at fifth teaching building (第五教学楼), USTC (No. 8 on the map)



(map of East campus, USTC)

• Campus Gate Access:

The university campus has access control. Participants can freely enter and exit the campus by wearing the Representative Badge. Reminder: Please register and collect your badge and related materials on January 14. If you arrive late, enter through the South or West Gates, where volunteers will assist you.

8. Contact & Assistance:

For assistance during the conference, please reach out to the conference services team. You can contact them at:

• The conference services team: stcfws@ustc.edu.cn

Xiaorong Zhou zxrong@ustc.edu.cn +86 13013069321
 Xiaoqing Wang xqwang9@ustc.edu.cn +86 13966785061

9. Additional Tips:

• The conference occurs during the busy Chinese Spring Festival travel period. Attendees are encouraged to plan their travel carefully and keep informed about the latest traffic updates.

10. Weather (Hefei, 13 Jan - 19 Jan):

Prepare for the weather in Hefei during your visit.

| 0-4 | -0- | Sunny | 17°C | SE <12km/h |
|---------------|----------------|------------|------|------------|
| Sat Jan.13 | | ourn, | | OL SIZMINI |
| | -,0- | Sunny | 4°C | SE <12km/h |
| Sun | <u>ن</u> | Cloudy | 17°C | N <12km/h |
| Jan.14 | 0 | Overcast | 2°C | NE <12km/h |
| Mon | <u>À</u> | Cloudy | 11°C | NE <12km/h |
| Jan.15 | -; o (- | Sunny | 0°C | E <12km/h |
| Tues | <u>À</u> | Cloudy | 12°C | SE <12km/h |
| Jan.16 | | Light rain | 6°C | SE <12km/h |
| Wed | | Rain | 7°C | N <12km/h |
| Jan.17 | | Rain | 4°C | NE <12km/h |
| Thur | | Rain | 5°C | N <12km/h |
| Jan.18 | | Overcast | 3°C | N <12km/h |
| Fri | | Rain | 6°C | NE <12km/h |
| Jan.19 | 4 | Sleet | 1°C | NW <12km/h |
| | | | | |

11. Useful Terms:

Chinese phrases are included to assist your stay:

- 请帮我打一辆出租车(Please hail a taxi for me)
- 我要去合肥南站(I want to go to the Hefei South Railway Station)
- 我要去中国科学技术大学东校区东南门 (I want to go to Southeast Gate of the East Campus, University of Science and Technology of China)
- 我要去悦雅江南春酒店(合肥中科大店)(I want to go to Yueya Jiangnanchun Business Hotel)
- 我要去合肥新桥国际机场 (I want to go to Hefei Xinqiao International Airport)
- 我要去合肥皇冠酒店(I want to go Crowne Plaza Hotel, Hefei)

12. Shuttle Bus during Workshop

| Date | Time | Venues | | |
|------|----------------|---|---|--|
| 15 | 7:50 | | Plaza Hotel, Hefei→ Podium building of Material Science Research Building 场质科研楼裙楼 | |
| Jan | 18:50 | Podium building of Material Science Research Building → Crowne Plaza Hotel, Hefei 物质科研楼裙楼 合肥皇冠假日酒店 | | |
| 16 | 8:00 | Crowne Plaza Hotel, Hefei → Fifth teaching building 合肥皇冠假日酒店 第五教学楼 | | |
| Jan | 18:10 18:50 | | Fifth teaching building → Crowne Plaza Hotel, Hefei 第五教学楼 合肥皇冠假日酒店 | |
| | 8:00 | Crowne Plaza Hotel, Hefei → Fifth teaching building 合肥皇冠假日酒店 第五教学楼 | | |
| | 14:00 | Anhui | Podium building of Material Science Research Building → Anhui Museum 物质科研楼裙楼 安徽博物院 | |
| | 17:30 | Museum | Anhui Museum → Crowne Plaza Hotel, Hefei 安徽博物院 合肥皇冠假日酒店 | |
| 17 | 16:20 | Podium building of Material Science Research Building → NSR 物质科研楼裙楼 国家同步辐射实验室 | | |
| Jan | 17:30 | NSRL → Crowne Plaza Hotel, Hefei Lab 国家同步辐射实验室 合肥皇冠假日酒店 | | |
| | 17:30 | Visiting & others Podium building of Material Science Research Building → Crowne F Hotel, Hefei 物质科研楼裙楼 合肥皇冠假日酒店 | | |
| | 20:40 | Crowne Plaza Hotel, Hefei → Yueya Jiangnanchun Business Hotel 合肥皇冠假日酒店 | | |
| 18 | 8:00 | | Plaza Hotel, Hefei → Podium building of Material Science Research Building 短假日酒店 物质科研楼 | |
| Jan | 18:30 | Podium building of Material Science Research Building → Crowne Plaza Hotel, Hefei 物质科研楼裙楼 合肥皇冠假日酒店 | | |

13. Walking Route



The Local Organization Committee of FTCF 2024
11 January 2024

Agenda of FTCF 2024

| Jan.15 | | | |
|---|---|-------------------------|--|
| TI | he third floor in the podium building of Material Science F | Research Building | |
| | (物质科研楼裙楼三楼) | | |
| | Session I (8:50-11:00) | | |
| | Chair: Yangheng Zheng (UCAS) | | |
| 8:50-9:00 | Opening speech | | |
| 9:00-9:30 | STCF overview | Haiping Peng | |
| 7.00-7.30 | STCT OVERVIEW | (USTC) | |
| 9:30-10:00 | SCTF overview | Ivan Logashenko | |
| 7.30-10.00 | SCII OVCIVICW | (BINP) | |
| 10:00-10:30 | LHCb upgrade and prospect | Vincenzo Vagnoni | |
| 10.00-10.30 | Effeo apgrade and prospect | (INFN Bologna and CERN) | |
| 10:30-11:00 Coffee-break and Photo-taking | | | |
| | Session II (11:00-12:30) | | |
| | Chair: Ivan Logashenko (BINP) | | |
| 11:00-11:30 | Compact multiquarks vs. hadronic molecules | Marek Karliner | |
| 11.00 11.50 | Compact managearks vs. madrome morecures | (Tel Aviv University) | |
| 11:30-12:00 | Review of LHCb hadrons | Liming Zhang | |
| 11.50 12.00 | review of Effect madrons | (Tsinghua University) | |
| 12:00-12:30 | Hadronic molecules and kinematic singularities | Feng-Kun Guo | |
| 12.00-12.50 | Tradionic molecules and kinematic singularities | (ITP) | |
| 12:30-14:00 | Lunch (Dining Hall) | | |
| Session III (14:00-16:00) | | | |
| Chair: Sergey Barsuk (IJCLab) | | | |
| 14:00-14:30 | Spectroscopy of heavy baryons | Xiang Liu | |
| 17.00-17.30 | specificacopy of ficary daryons | (LZU) | |

| 14:30-15:00 | Precision studies at BESIII in charm and new physics | Peirong Li | |
|------------------------------|--|-------------------------------|--|
| 14.30-13.00 | search | (LZU) | |
| 15:00-15:30 | D. C. COD. C. L. C. L. L. COTOD. | German E. Valencia | |
| 15:00-15:30 | Pursuit of CP violation in hyperon decay at STCF | (Monash University) | |
| 15.20 16.00 | Totas avanta maviava | Antonio Polosa (remote) | |
| 15:30-16:00 | Tetraquarks review | (Sapienza University of Rome) | |
| 16:00-16:30 | Coffee-break | | |
| Session IV (16:30-18:30) | | | |
| Chair: Yuriy Tikhonov (BINP) | | | |
| 16:30-17:00 | Belle II status and prospect | Xiaolong Wang | |
| 10:30-17:00 | | (Fudan University) | |
| 17:00-17:30 | Implementing the ECFA R&D Detector Roadmap: | Anna Colaleo (remote) | |
| 17.00-17.30 | Towards International Detector R&D Collaborations | (INFN Bari) | |
| 17:30-18:00 | Review of DIRC Detectors | Jochen Schwiening (remote) | |
| 17.30-18.00 | | (GSI) | |
| 18:00-18:30 | 8:30 Review of MAPS detectors | Jerome Baudot (remote) | |
| | | (IPHC) | |

Jan.16 Physics session

R. 5503 in fifth teaching building

(第五教学楼 5503)

Session I (9:00-10:40)

| Chair: Zhi-Hui Guo (Hebei Normal University) | | | | |
|--|---|---------------------------------------|--|--|
| 9:00-9:25 | Tau CPV | Xin-Qiang Li (Central China Normal | | |
| | | University) | | |
| 9:25-9:50 | Tau electromagnetic dipole moment | Yongcheng Wu | | |
| 7.23-7.30 | rau electromagnetie dipole moment | (Nanjing Normal University) | | |
| 0.50.10.15 | | Emilie Passemar (remote) | | |
| 9:50-10:15 | V _{us} from tau decay | (Indiana University) | | |
| 10 15 10 40 | | Pavel Pakhlov | | |
| 10:15-10:40 | Possibility of measure Michel parameters | (HSE University) | | |
| | Session II (11:00-12:15) | | | |
| | Chair: Xiao-Rui Lyu (UCAS) | | | |
| 11.00.11.25 | | Dmitry Kalashnikov | | |
| 11:00-11:25 | On direct observation of millicharged particles at STCF | (INR of RAS) | | |
| | Measurement of the weak mixing angle at a Super | Alexander Bondar | | |
| 11:25-11:50 | Charm-Tau factory with data-driven monitoring of the | (BINP) | | |
| | average electron beam polarization | | | |
| 11:50-12:15 | CP violation in neutrino oscillations (lepton sector of SM) | Yury Kudenko | | |
| | (*F*********************************** | (INR of RAS) | | |
| | Session III (14:00-16:05) | | | |
| Chair: Xiaorong Zhou (USTC) | | | | |
| 14:00-14:25 | Charmonium production in e^+e^- | Hong-Fei Zhang | | |
| 17.00-17.23 | Charmomum production in e e | (Third Military Medical University) | | |
| 14.25 14.50 | Physics of near threshold resonances | Sergey Salnikov | | |
| 14.23-14.30 | 14:25-14:50 Physics of near-threshold resonances | (BINP) | | |

| 14:50-15:15 | η/η' meson physics at STCF | Sergi Gonzàlez-Solís | | |
|-------------|--|-------------------------------|--|--|
| 14.50-15.15 | | (University of Barcelona) | | |
| 15:15-15:40 | Prospects for ditauonium discovery at colliders | Hua-Sheng Shao(remote) | | |
| 13.13-13.40 | Prospects for ditauonium discovery at confiders | (LPTHE Paris) | | |
| 15 40 16 05 | H 1: 44 ' ADEGIN | Han Miao | | |
| 15:40-16:05 | Hyperon-nuclei scattering at BESIII | (IHEP) | | |
| | Session IV (16:30-18:10) | | | |
| | Chair: Pavel Pakhlov (HSE University) | | | |
| 16:30-16:55 | CPT tests with neutral kaons | Antonio Di Domenico(remote) | | |
| 10.30-10.33 | | (Sapienza University of Rome) | | |
| 16:55-17:20 | Sum rule amplitude analysis of two body D-decays using | Vitaly Popov(remote) | | |
| 10.55-17.20 | CP violation in $K^0 \to \pi\pi$ | (Tel Aviv University) | | |
| 17.20 17.45 | | Luiz Vale Silva | | |
| 17:20-17:45 | CP violation in $D \to \pi\pi$ | (IFIC, Valencia University) | | |
| 17.45 10.10 | A physics program of charmed baryon studies at the | Timofey Uglov | | |
| 17:45-18:10 | Super tau-charm | (HSE University) | | |

| Jan.16 Detector session | | | |
|------------------------------------|---|------------------------|--|
| R. 5504 in fifth teaching building | | | |
| | (第五教学楼 5504) | | |
| | Session I (9:00-10:20) | | |
| | Chair: Shoji Uno (KEK) | | |
| | Inner Tracker for Super-Charm tau factory based on | Timofei Maltsev | |
| 9:00-9:20 | compact Time-Projection chamber | (BINP) | |
| 0.20.0.40 | CTCE DWELL : 4 1 DAD | Siqi He | |
| 9:20-9:40 | STCF uRWELL inner tracker R&D | (USTC) | |
| 0.40.10.00 | CTCE MARC: 1 DOD | Lailin Xu | |
| 9:40-10:00 | STCF MAPS inner tracker R&D | (USTC) | |
| 10.00.10.20 | COLOR DE CACHINIA COND | Ivan Ovtin | |
| 10:00-10:20 | Status and R&D of ASHIPH option for PID | (BINP) | |
| | Session II (10:50-12:10) | | |
| | Chair: Yuriy Tikhonov (BINP) | | |
| 10:50-11:10 | R&D with pure CsI-based prototype of ECAL | Denis Epifanov(remote) | |
| 10.30-11.10 | R&D with pure Csi-based prototype of ECAL | (BINP) | |
| 11:10-11:30 | STCF pCsI ECAL detector R&D | Zekun Jia | |
| 11.10-11.30 | STEF pest ECAL detector R&D | (USTC) | |
| 11:30-11:50 | Readout electronics for STCF pCsI ECAL | Zhongtao Shen | |
| 11.30-11.30 | Readout electronics for STCF pCSI ECAL | (USTC) | |
| 11:50-12:10 | Conceptual design of the superconductive solenoid for | Evgeniy Pyata(remote) | |
| 11.30-12.10 | SCTF detector | (BINP) | |
| Session III (14:00-16:10) | | | |
| | Chair: Jianbei Liu (USTC) | | |

12

Belle II CDC

Study of wires for drift chambers coated with a magnetron

14:00-14:25

14:25-14:45

Shoji Uno

(KEK)

Ivan Basok(remote)

(BINP)

| 14:45-15:05 | IDEA drift chamber | Nicola De Filippis(remote) (Politecnico and INFN Bari) | |
|--------------------------|--|---|--|
| 15:05-15:30 | STCF DIRC-like TOF detector R&D | Binbin Qi (USTC) | |
| 15:30-15:50 | TOP detector for particle identification at Belle II | Ezio Torassa(remote) (INFN Padova) | |
| 15:50-16:10 | Proof of concept of the GRAiNITA calorimeter | Giulia Hull(remote) (IJCLab) | |
| Session IV (16:40-18:10) | | | |
| | Chair: Qian Liu (UCAS) | | |
| 16:40-17:05 | Cherenkov detectors in the ALICE experiment at LHC: | Giacomo Volpe(remote) | |
| 10.40-17.03 | current status and perspective, Giacomo Volpe | (INFN Bari) | |
| 17:05-17:30 | MPGD-based RICH at COMPASS | Fulvio Tessarotto(remote) (INFN Trieste) | |
| 17:30-17:50 | PID R&D status of FARICH option for PID | Alexandr Barnyakov (BINP) | |
| 17:50-18:10 | STCF PIDB R&D | Jiaming Li (USTC) | |

| Jan.16 Accelerator session | | | |
|------------------------------------|---|--------------------------|--|
| R. 5506 in fifth teaching building | | | |
| | (第五教学楼 5506) | | |
| | Session I (9:00-10:25) | | |
| | Chair: Jingyu Tang (USTC) | | |
| 9:00-9:25 | Beam-beam effects at SuperKEKB: simulation and | Demin Zhou(remote) | |
| 9.00-9.23 | experimental results | (KEK) | |
| 9:25-9:45 | Progress on lattice design study for STCF storage rings | Tao Liu | |
| 9.23-9.43 | riogress on fattice design study for STCF storage rings | (USTC) | |
| 9:45-10:05 | Status of beam-beam simulation for STCF | Sangya Li | |
| 9.43-10.03 | Status of beam-beam simulation for STC1 | (USTC) | |
| 10:05-10:25 | Longitudinal beam dynamics and collective effects at the | Linhao Zhang | |
| 10.03-10.23 | STCF collider rings | (USTC) | |
| | Session II (11:00-12:15) | | |
| | Chair: Anton Bogomyagko (BINP) | | |
| 11:00-11:25 | Mono-chromatization of e ⁺ e ⁻ Colliders with a Large | Valery Telnov | |
| 11.00-11.23 | Crossing Angle | (BINP) | |
| 11:25-11:50 | 1.25 11.50 Dlan for CW 11:1 1 (, D 11 D.D. | Eugene Levichev(remote) | |
| 11.23-11.30 | Plan for CW-colliders development at Budker INP | (BINP) | |
| 11:50-12:15 | Touschek lifetime optimization at CW-colliders | Anton Bogomyagkov | |
| 11.30-12.13 | rousenek metinic optimization at CW-conders | (BINP) | |
| | Session III (14:00-15:50) | | |
| | Chair: Qing Luo (USTC) | | |
| 14:00-14:30 | The DAFNE collider | Catia Milardi | |
| 14.00-14.30 | THE DATALE COMME | (INFN-LNF) | |
| 14:30-14:55 | Plan for the CW-collision test at VEPP-4M | Sergey Sinyatkin(remote) | |
| 14.30-14.33 | rian for the CW-comsion test at VEFF-4ivi | (BINP) | |
| 14:55-15:20 | Plan for longitudinal polarization test at VEPP-4M | Sergei Nikitin(remote) | |
| 14.33-13.40 | Fian for longitudinal polarization test at VEPP-4M | (BINP) | |
| 15:20-15:50 | The MDI of FCCee | Manuela Boscolo(remote) | |
| 13.20-13.30 | THE MIDI OF PECEE | (INFN-LNF) | |
| 16:00-17:30 | Free Discussion | | |

Jan.16 Software & Computing session

R. 5507 in fifth teaching building

(第五教学楼 5507)

Session I (14:00-16:00)

| Chair: Xingtao Huang (SDU) | | | |
|--|---|----------------------------|------------|
| 14.00 14.20 | 14.20 G. L. CGERG O'CL G. C. | | Weidong Li |
| 14:00-14:30 | Status of CEPC Offline Software | (IHEP) | |
| 14:30-15:00 | Status of ACTS | Andreas Salzburger(remote) | |
| 14:30-13:00 | Status of ACTS | (CERN) | |
| 15:00-15:30 | A GTTG I' | Xiaocong Ai | |
| 15:00-15:50 | ACTS application for gaseous tracking detectors | (ZZU) | |
| 15.20 16.00 | PID of BESIII and CEPC | Linghui Wu | |
| 15:30-16:00 | | (IHEP) | |
| Session II (16:30-18:30) | | | |
| Chair: Shih-Chieh Hsu (University of Washington) | | | |
| 16.20 17.00 | Status of the SCT detector software | Andrey Sukharev | |
| 16:30-17:00 | | (BINP) | |
| 17:00 17:20 | 15.00 G | Xingtao Huang | |
| 17:00-17:30 Status of STCF Offline Sof | Status of STCF Offline Software | (SDU) | |
| 17 20 10 00 | | Zhang Jin | |

Track Reconstruction at BESIII

Tracking software for STCF

(SYSU)

Hang zhou

(USTC)

17:30-18:00

18:00-18:30

| | Jan.17 Detector session | | | |
|-------------|--|----------------------------|--|--|
| | R. 5504 in fifth teaching building | | | |
| | (第五教学楼 5504) | | | |
| | Session V (9:00-10:25) | | | |
| | Chair: Timofey Uglov (HSE University) | | | |
| 9:00-9:20 | STCF Trigger R&D | Zhujun Fang | | |
| 7.00-7.20 | STCI Higger Red | (USTC) | | |
| 9:20-9:45 | Belle II DAQ | Mikhail Remnev(remote) | | |
| 7.20-7.43 | Belle II D/1Q | (BINP) | | |
| 9:45-10:05 | STCF DAQ R&D | Junfeng Yang | | |
| 7.43-10.03 | STOT DING RED | (BINP) | | |
| 10:05-10:25 | R&D of fast MCP-maPMT | Ping Chen | | |
| 10.05 10.25 | TREE OF TRUST THEIR TATE | (XIOPM) | | |
| | Session VI (10:50-12:05) | | | |
| | Chair: Ivan Logashenko (BINP) | | | |
| 11:05-11:25 | SuperKEKB beam background and countermeasures | Hiro Nakayama(remote) | | |
| 11.05-11.25 | Superkerkib beam background and countermeasures | (KEK) | | |
| 11:25-11:45 | STCF beam background simulation and implementation | Yupeng Pei | | |
| 11.23-11TJ | 5101 beam background simulation and implementation | (USTC) | | |
| 11.45 12.05 | Dooms of electrons, gammas and fact neutrons at DIND | Viktor Bobrovnikov(remote) | | |

Beams of electrons, gammas and fast neutrons at BINP

(BINP)

11:45-12:05

Jan.17 Accelerator session

R. 5506 in fifth teaching building

(第五教学楼 5506)

Session V (9:00-10:25)

Chair: Yukiyoshi Onishi (KEK)

| R&D of microwave techniques for STCF (USTC) 9:25-9:50 STCF injector and positron source (USTC) 9:50-10:15 Cavity-based beam diagnostics for high quality linacs (DICP) Session VI (10:50-12:05) Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP (BINP) | | | |
|---|--------------------------|---|---------------------------|
| 9:25-9:50 STCF injector and positron source (USTC) 9:50-10:15 Cavity-based beam diagnostics for high quality linacs Cavity-based beam diagnostics for high quality linacs (DICP) Session VI (10:50-12:05) Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) | 9:00-9:25 | R&D of microwave techniques for STCF | |
| 9:25-9:50 STCF injector and positron source (USTC) Qian Wang (DICP) Session VI (10:50-12:05) Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF Vacuum and cryogenic design of the CW-final focus Superconducting CCT quadrupole test at Budker INP Visitaly Shkaruba(remote) Visitaly Shkaruba(remote) | | | (USTC) |
| 9:50-10:15 Cavity-based beam diagnostics for high quality linacs Cavity-based beam diagnostics for high quality linacs (DICP) Session VI (10:50-12:05) Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) | 0.25 0.50 | STCE injector and negitron govern | Ailin Zhang |
| 9:50-10:15 Cavity-based beam diagnostics for high quality linacs Session VI (10:50-12:05) | 9.23-9.30 | STCF injector and position source | (USTC) |
| Session VI (10:50-12:05) Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) | 0.50 10.15 | Cavity-based beam diagnostics for high quality linacs | Qian Wang |
| Chair: Youjin Yuan (IMP) 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | 9.30-10.13 | | (DICP) |
| 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | Session VI (10:50-12:05) | | |
| 10:50-11:15 Bunch-by-bunch beam diagnostics at SSRF (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | Chair: Youjin Yuan (IMP) | | |
| (SARI) 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) Vitaly Shkaruba(remote) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | 10.50 11.15 | Bunch-by-bunch beam diagnostics at SSRF | Yimei Zhou |
| 11:15-11:40 Vacuum and cryogenic design of the CW-final focus (BINP) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | 10:30-11:13 | | (SARI) |
| (BINP) Vitaly Shkaruba(remote) 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | 11:15-11:40 | Vannum and amagazia dazian of the CW first forms | Alexander Krasnov(remote) |
| 11:40-12:05 Superconducting CCT quadrupole test at Budker INP | | vacuum and cryogeme design of the Cw-final focus | (BINP) |
| | 11:40-12:05 | Superconducting CCT quadrupole test at Budker INP | Vitaly Shkaruba(remote) |
| | | | (BINP) |

Jan.17 Software & Computing session

R. 5507 in fifth teaching building

(第五教学楼 5507)

Session III (9:00-10:30)

Chair: Weidong Li (IHEP)

| 9:00-9:30 | Status of Belle II software | Frank Meier(remote) (Duke University) |
|----------------------------|--|---------------------------------------|
| 9:30-10:00 | ML application in HEP | Shih-Chieh Hsu |
| | | (University of Washington) |
| 10:00-10:20 | Core Software of STCF | Teng Li |
| 10.00 10.20 | | (SDU) |
| 10:20-10:40 | ML based PID for STCF | Yuncong Zhai |
| 10.20-10.40 | | (SDU) |
| Session IV (11:00-12:30) | | |
| Chair: Xiaocong Ai (ZZU) | | |
| 11:10-11:30 | Kinematic Fitting and Vertexing | Liang Yan |
| 11:10-11:30 | | (Fudan University) |
| 11:30-11:50 | RICH software for STCF | Binlong Wang |
| | | (LICAC) |
| | | (UCAS) |
| 11.50 12.10 | DTOE auftware for STCE | Yutong Feng |
| 11:50-12:10 | DTOF software for STCF | ` , |
| 11:50-12:10 12:10-12:30 | DTOF software for STCF ECAL software for STCF | Yutong Feng |

| Jan.17 Social Event & Banquet | | | |
|-------------------------------|---|--|--|
| Social Event | | | |
| 14:30-17:30 | Anhui Museum / Lab tour | | |
| Banquet | | | |
| 18:00-20:30 | 3F Fenghua Ballroom 3 at Crowne Plaza Hefei | | |
| | (皇冠假日酒店风华三厅) | | |

Jan.18

The third floor in the podium building of Material Science Research Building

(物质科研楼裙楼三楼)

| Session V (9:00-10:30) | | | | |
|---|--|---|--|--|
| Chair: Maria Enrica Biagini (INFN-Frascati) | | | | |
| 9:00-9:30 | STCF accelerator | Jingyu Tang (USTC) | | |
| 9:30-10:00 | SCTF accelerator | Anton Bogomyagkov (BINP) | | |
| 10:00-10:30 | Status of SuperKEKB | Yukiyoshi Ohnishi (KEK) | | |
| 10:30-11:00 | :30-11:00 Coffee-break | | | |
| Session VI (11:00-12:30) | | | | |
| | Chair: Tord Johansson (Uppsala University) | | | |
| 11:00-11:30 | LHCb flavor physics | Guy Wilkinson (University of Oxford) | | |
| 11:30-12:00 | Belle/BelleII charm | Longke Li (University of Cincinnati) | | |
| 12:00-12:30 | BESIII hadron spectroscopy | Shuangshi Fang (IHEP) | | |
| 12:30-14:00 | Lunch (Dining Hall) | | | |
| Session VII (14:00-16:00) | | | | |
| Chair: Changzheng Yuan (IHEP) | | | | |
| 14:00-14:30 | Lattice simulations for charm | Padmanath Madanagopalan(remote) (The Institute of Mathematical Sciences Chennai) | | |

| 14:30-15:00 | Non-relativistic EFTs | Nora Brambilla(remote) (Technical University of Munich) |
|-------------|--|--|
| 15:00-15:30 | Belle/Belle II tau physics | Denis Bodrov (Soochow University, HSE University) |
| 15:30-16:00 | Tau physics at the STCF | Antonio Pich(remote) (IFIC, Valencia University) |
| 16:00-16:30 | Coffee-break | |
| | Session VIII (16:30-18: 10) | |
| | Chair: Guy Wilkinson (University of Oxford | |
| 16:30-17:00 | Hyperon physics and QCD studies at BESIII | Guangshun Huang (USTC) |
| 17:00-17:30 | CP violation in hadronic charm decays | Fu-Sheng Yu (LZU) |
| 17:30-18:00 | Anomalies in the charm-strange sector | Teppei Kitahara (ITP) |
| 18:00-18:10 | Closing remarks | |

