



# The 2025 International Workshop on the High Energy Circular Electron Positron Collider

Thursday, 6 November 2025

## Higgs: 1 - Nanguo (14:00 - 15:40)

-Conveners: Wei Su

| time  | [id]  | title                                                                         | presenter                                                                                             |
|-------|-------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 14:00 | [48]  | Electroweak Corrections to Higgs boson production and decay                   | CHEN, Longbin                                                                                         |
| 14:20 | [256] | Discovery Potential of Future Electron-Positron Colliders for a 95 GeV Scalar | BRUCE MELLADO OR ANDREAS CRIVELLIN                                                                    |
| 14:40 | [255] | Search for Dark Matter in 2HDMS at LHC and future Lepton Colliders            | JUHI DUTTA, JAYITA LAHIRI, CHENG LI, GUDRID MOORTGAT-PICK, SHEIKH FARAH TABIRA, JULIA ANABELL ZIEGLER |
| 15:00 | [63]  | Searching for leptophilic composite asymmetric dark sector at e+e- colliders  | XI, Changbin                                                                                          |
| 15:15 | [257] | The electroweak precision constraints of the 2HDM+S                           | Ms LI, Juxiang                                                                                        |

## Higgs: 2 - Nanguo (16:00 - 18:00)

-Conveners: Mingshui CHEN

| time  | [id]  | title                                                                                | presenter            |
|-------|-------|--------------------------------------------------------------------------------------|----------------------|
| 16:00 | [108] | Measurement of the Higgs decaying into two photons with the CEPC reference detector  | Mr MEKOUAR, Reda     |
| 16:20 | [254] | Search for long-lived particles in the Higgs decays with the CEPC reference detector | XIANG CHEN, LIANG LI |
| 16:40 | [16]  | CP violation in Higgs to tautau decays at CEPC                                       | Ms VIDAKOVIC, Ivana  |
| 17:00 | [249] | Measurement of the Higgs mass with the CEPC reference detector                       | ZHANG, Chenguang     |
| 17:20 | [250] | Search for the invisible decay of the Higgs boson with the CEPC reference detector   | LIU, Geliang         |
| 17:40 | [55]  | Analytical calculation of multi-loop Feynman integrals with masses                   | Prof. ZHANG, Haibin  |

# Friday, 7 November 2025

Higgs: 3 - Nanguo (09:00 - 10:45)

-Conveners: Ke-Pan (柯盼) Xie (谢)

| time  | [id] title                                                                                   | presenter         |
|-------|----------------------------------------------------------------------------------------------|-------------------|
| 09:00 | [9] Chasing 2HDM via electroweak corrections at e+e- colliders                               | Dr ZHANG, Hantian |
| 09:20 | [50] Highlights of the HL-LHC physics projections by ATLAS and CMS                           | ZHOU, Chen        |
| 09:40 | [65] Testing a light Higgs of 95 GeV at CEPC                                                 | Prof. ZHU, Jingya |
| 10:00 | [277] FCC-ee Higgs summary                                                                   | Dr ZUO, Xunwu     |
| 10:20 | [7] Testing Higgs \$CP\$ properties at the CEPC with an additional ISR correction parameter. | Mr VASENIN, Egor  |