## **ICHEP 2016 Chicago**



## 38th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

AUGUST 3 - 10, 2016 CHICAGO

Contribution ID: 1194

Type: Oral Presentation

## Status of the CEPC Project: Accelerator, Detector and Physics (15' + 5')

Thursday, 4 August 2016 10:20 (20 minutes)

The high energy Circular Electron-Positron Collider (CEPC) is envisioned to be installed in a tunnel of at least 54 km in circumference. The CEPC physics program includes high precision measurements of the Higgs boson and the study of the electroweak physics. The CEPC may be upgraded to a Super proton-proton Collider (SppC), which can explore the physics landscape at o(100) TeV in proton-proton collisions. Other collision operations, such as e-p and heavy ion collisions, are also under discussion.

This talk covers the accelerator baseline design, the detector R&D progress and the physics potentials of the CEPC project.

**Primary author:** GAO, Jie (IHEP)

**Presenter:** GAO, Jie (IHEP)

Session Classification: Detector: R&D and Performance

Track Classification: Detector: R&D and Performance