## The 2024 International Workshop on the High Energy Circular Electron Positron Collider

Contribution ID: 56 Type: Poster

## Development of Al-stabilized superconductor for the CEPC Detector Magnet

Wednesday, 23 October 2024 22:02 (1 minute)

A huge superconducting magnet is proposed for the future detector of Circular Electron Positron Collider (CEPC) at the Institute of High Energy Physics, Chinese Academy of Sciences (IHEP,CAS) .The design field of CEPC detector magnet is 3 Tesla, the coil length is 9.15m, and the free bore is 7.07m.An aluminium stabilized Rutherford type conductor is developed for the CEPC detector magnet. This paper presents R&D process and the main features of the Al-stabilized conductor.

Primary author: ZHAO, Ling (高能所)

Co-authors: Dr WANG, Menglin; Mr ZHAO, Yu

Presenters: ZHAO, Ling (高能所); Dr WANG, Menglin

Session Classification: Poster

Track Classification: Detector and System: 11: MDI & Integration