



Contribution ID: 1708 Contribution code: MOPL083

Type: **Poster Presentation**

## **Error correction for the high luminosity lattice of the CEPC**

*Monday, 8 May 2023 16:30 (2 hours)*

Circular Electron-Positron Collider (CEPC) is a 100 km circumference double-ring Collider, the high luminosity lattice in CEPC TDR is half lower emittance compared with the lattice in CEPC CDR. The dynamic aperture is strongly sensitive to the magnet misalignments and field errors. We present the study of the error correction for the CEPC TDR lattice and the dynamic aperture tracking after correction. The scheme of the correction and the resulting performance are discussed.

### **Funding Agency**

### **Footnotes**

### **I have read and accept the Privacy Policy Statement**

Yes

**Primary author:** WANG, Bin (Institute of High Energy Physics)

**Co-authors:** WEI, Yuanyuan (Institute of High Energy Physics); WANG, Yiwei (Chinese Academy of Sciences); YU, Chenghui (Institute of High Energy Physics)

**Presenter:** WANG, Bin (Institute of High Energy Physics)

**Session Classification:** Monday Poster Session

**Track Classification:** MC1: Colliders and other Particle Physics Accelerators: MC1.A02: Lepton Circular Colliders