

Update on CEPC pretzel scheme design

Wednesday 13 April 2016 16:25 (15 minutes)

CEPC was proposed as an electron and positron collider ring with a circumference of 50-100km to study the Higgs boson. Since the proposal was made, the lattice design for CEPC has been carried out and a preliminary conceptual design report has been written at the end of 2014. In this paper, we will describe the principles of pretzel scheme, which is one of most important issues in CEPC lattice design. Then, we will show the modification of the lattice based on the lattice design shown in the Pre-CDR. The latest pretzel orbit design result and the dynamic aperture optimization result will be shown.

Author: GENG, Huiping (IHEP)

Presenter: GENG, Huiping (IHEP)

Session Classification: FCC-ee Optics

Track Classification: Accelerators