



Contribution ID: 260

Type: Oral presentation (in person)

Positron source for CEPC

Tuesday, 9 July 2024 09:00 (20 minutes)

The CEPC Linac is a normal conducting S-band and C-band combined Linac providing electron and positron beams at an energy up to 30 GeV with 100 Hz repetition. The positron source of CEPC adopts a conventional scheme, electron beam energy on the target is 4GeV with a 10nC bunch charge. This talk will introduce the design of CEPC positron sources, including positron generation, capture, pre-acceleration, and the positron damping ring. The development of key components such as a flux concentrator and its solid-state modulator for CEPC positron source will be discussed. Other research activities related to CEPC sources will also be mentioned.

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Session Classification: Sources

Track Classification: Accelerator: Sources