

R&D for positron sources at high-energy lepton colliders

Thursday 18 July 2024 12:15 (15 minutes)

Positron Sources for high luminosity high-energy colliders are a challenge for all future lepton colliders as, for instance, the International Linear Collider (ILC) as well as new concepts as the HALHF collider design. In the talk new R&D developments for the undulator-based positron source are discussed. The talk includes current prototypes for optic matching devices as pulsed solenoid as well as plasma lenses. The applicability of the positron source for the ILC as well as for the HALHF concept are discussed.

Alternate track

I read the instructions above

Yes

Authors: TENHOLT, Carmen (DESY); LOISCH, Gregor; YAKOPOV, Grigory (DESY); FORMELA, Manuel; HAMANN, Niclas; SIEVERS, Peter; Dr RIEMANN, Sabine; MOORTGAT-PICK, gudrid

Presenter: MOORTGAT-PICK, gudrid

Session Classification: Accelerators: Physics, Performance, and R&D for future facilities

Track Classification: 11. Accelerator: Physics, Performance, and R&D for Future Facilities