

SPPC Study Progress

Tuesday 12 April 2016 08:30 (20 minutes)

This presentation gives an overview on what we have carried out on the preliminary concept design and identification of technical challenges of the SPPC accelerators, including the collider and the injector chain. With the emphasis on the parameters optimization, lattice design, and collimation design, the accelerator physics studies also include injector chain concepts, luminosity leveling, instabilities and injection-extraction, and longitudinal dynamics. The main technical challenges are believed to be high-fields superconducting magnets and cryogenic beam screen, but other technical issues have also been surveyed.

Author: Prof. TANG, Jingyu (IHEP, CAS)

Presenter: Prof. TANG, Jingyu (IHEP, CAS)

Session Classification: FCC-hh Overall Design

Track Classification: Accelerators