

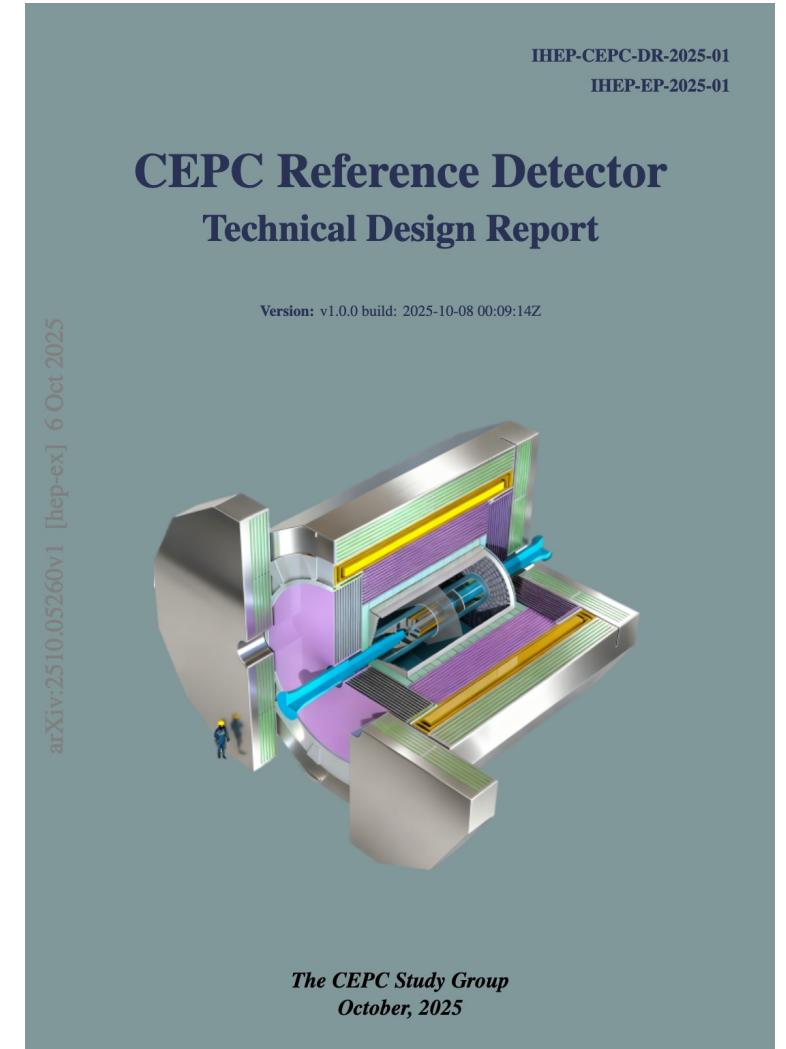
CEPC Silicon Inner Tracker meeting: Introduction

Yiming Li

20th Jan 2026

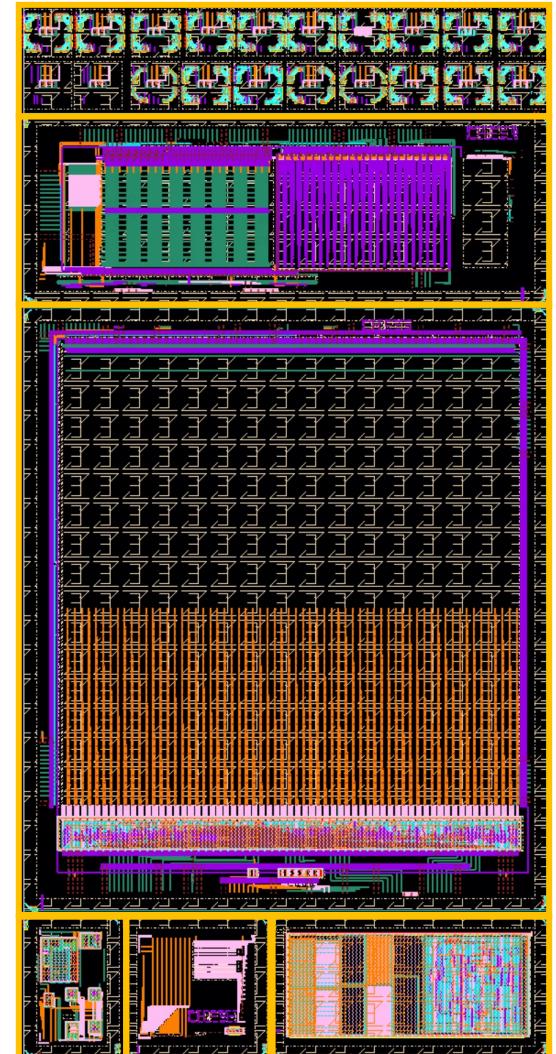
Organization

- Applause to everyone on the successful completion of CEPC RefTDR!
- New phase of R&D after the RefTDR:
 - Demonstration of key technologies
 - Optimization of the design; exploration of new ideas
- Inner Tracker meeting serving these purposes, tentative organization:
 - Biweekly meetings
 - Alternating betw. Chinese & International versions
 - Tue 2pm fits with sensor meeting, good for all?



On this meeting

- News on COFFEE sensor
 - CHiR (=COFFEE-HiRes) submitted yesterday!
 - Many thanks and congratulations to the designing team!
- Yang for brief intro. Detailed documentation to follow
- Annual plan for the Inner Tracker working packages



11mm * 20mm,
25 sub-chips

Annual plan

- Comments / suggestions / new ideas welcome
 - **Sensor:**
 - Design of quarter-size on the new process (Yang)
 - Characterization of COFFEE3 & CHiR (Zijun)
 - **Module prototyping (Xuhao)**
 - Module flex with dummy sensor
 - Dummy sensor production (Congcong)
 - Serial powering demo (Hui)
 - **Mechanics (Xiaohui)**
 - Stave structure? CO2?
 - Small endcap plate demo?
 - **Electronics & DAQ (Xiongbo, Zijun)**
 - Common electronics components?
 - **Simulation & performance (Gang)**
 - Impact of a RICH in endcap?

Next meeting(s)

- Ad-hoc meeting for NSFC application
 - Get in touch with YM if you are interested
 - Plan to discuss for a proposal on CEPC inner tracker sometime next week
- Next regular meeting:
 - In week 2nd Feb, International version
 - Time to negotiate with oversea colleagues, likely Tue/Thu late afternoon