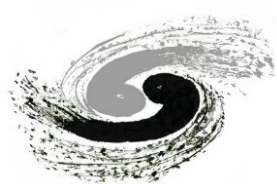


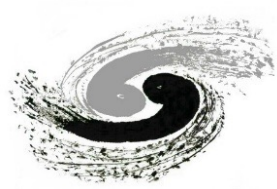
CEPC Ref-TDR ECAL Updates

Yong Liu (IHEP) for the CEPC Ref-TDR ECAL team
CEPC Reference Detector TDR Weekly Meeting
February 18, 2025



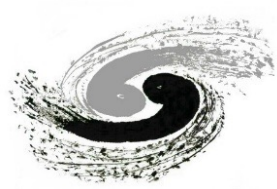
Overview on updates

- NDL-SiPM meeting for CEPC crystal ECAL:
 - Feb. 12, 2025: <https://indico.ihep.ac.cn/event/25036/>
- Visit SIC-CAS in Feb. 12: discussion on preparations for cost-estimate review
- (Remote) Meeting in Feb. 13 with Prof. R. Zhu on ECAL
- CEPC Ref-TDR ECAL Weekly Meeting
 - Feb. 14, 2025: <https://indico.ihep.ac.cn/event/25007/>



Overview on updates

- NDL-SiPM meeting for CEPC crystal ECAL: [agenda](#) (Feb. 12, 2025)
- Visit SIC-CAS in Feb. 12: discussion on preparations for cost-estimate review
- (Remote) Meeting in Feb. 13 with Prof. R. Zhu on ECAL
- CEPC Ref-TDR ECAL Weekly Meeting: [agenda](#) (Feb. 14, 2025)
- Summary of talks and discussions
 - NDL-SiPM: testing results and technical ways to increase SiPM pulse width ([talk](#))
 - To address the issue to SiPM-readout ASIC due to discrete “spikes” in BGO-SiPM
 - Identified a few more items for further testing in lab: to be done within this week
 - SiPM quality control standards and requirements: exchanged info with NDL team
 - SIC-CAS visit: BGO/BSO crystal growth updates, impacts of crystal length to cost
 - SiPM-readout ASIC: discussions with electronics team on [ASIC design specs](#)
 - Updated simulation of SiPM+BGO pulse including Beam-Induced Backgrounds ([talk](#))



Extra update

- [VCI2025](#) this week (Feb. 17-21)
 - Oral talk on CEPC crystal calorimeter R&D highlights
 - (Though a bit digressed from Ref-TDR) Plenary talk on “[Mechanics for particle detectors](#)” by Corrado Gargiulo: top quality and very inspiring for future CEPC R&D activities beyond Ref-TDR (please be noted about ~1GB slides)

