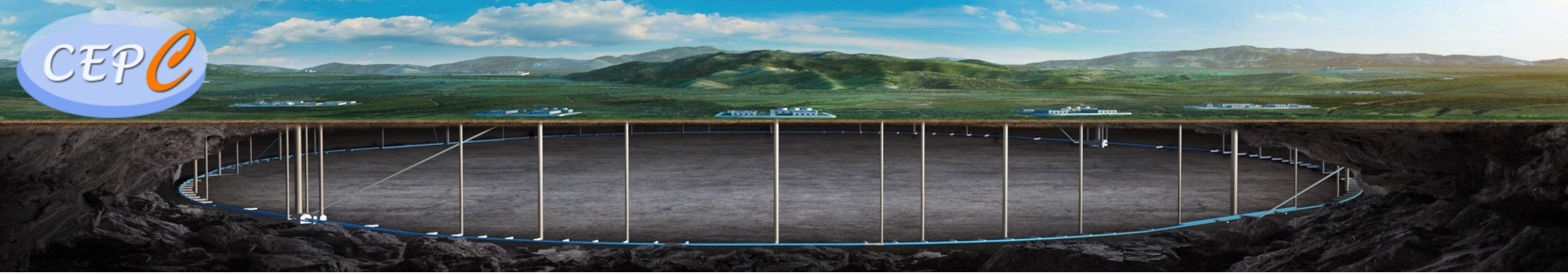


CEPC XXX Detector

Name

中国科学院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences

Content

- Introduction
- Progress after April IDRC Review
- Summary of Answer to Review comments
- Conclusion

Introduction

- This talk relates to the Ref-TDR Ch XX.
- Requirement of this detector
- Technology we chose
- Main challenges

(Briefly summarize in 1-2 slides)

Progress after April IDRC Review

- New outline layouts of chapter
  - (please compare old and new outline, highlight the parts are mainly updated)

(Please put this text box in proper pages to highlight the answer to a certain review comment)

- This study is to address the IDRC comment:
  - (Example)The mechanical interface between the detector structure—including the large magnet system—and the final focusing magnet is critical. Close collaboration with the accelerator group is necessary to assess both magnetic field interactions and potential mechanical vibrations…..

Progress after April IDRC Review

- New research contents
  - (Need to remind people what was the comments and suggestion from IDRC, and how we have addressed them.)

(Please put this text box in proper pages to highlight the answer to a certain review comment)

- This study is to address the IDRC comment:
  - (Example)The mechanical interface between the detector structure—including the large magnet system—and the final focusing magnet is critical. Close collaboration with the accelerator group is necessary to assess both magnetic field interactions and potential mechanical vibrations…..

Progress after April IDRC Review

- Remaining issues to be solved
  - (What we have done)
  - (Why we can't complete it now)
  - (Timescale for next step and future)

(Please put this text box in proper pages to highlight the answer to a certain review comment)

- This study is to address the IDRC comment:
  - (Example)The mechanical interface between the detector structure—including the large magnet system—and the final focusing magnet is critical. Close collaboration with the accelerator group is necessary to assess both magnetic field interactions and potential mechanical vibrations…..

Progress after April IDRC Review

- Main conclusion after further study in these months

(Please put this text box in proper pages to highlight the answer to a certain review comment)

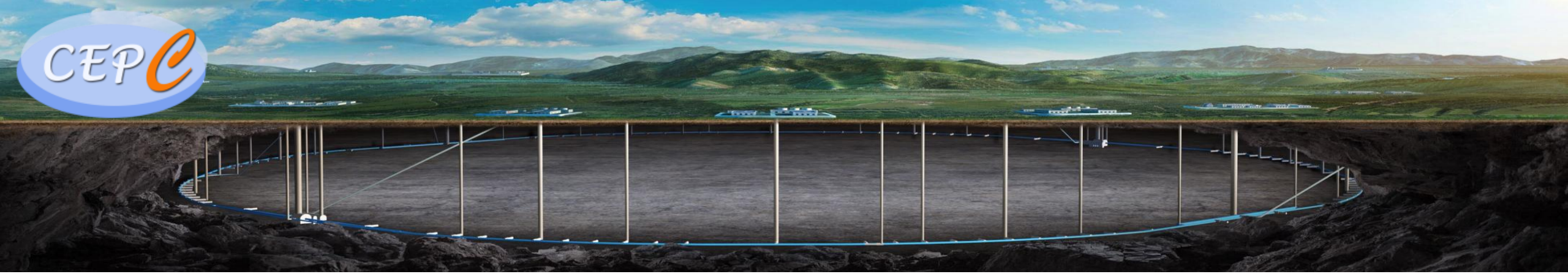
- This study is to address the IDRC comment:
  - (Example)The mechanical interface between the detector structure—including the large magnet system—and the final focusing magnet is critical. Close collaboration with the accelerator group is necessary to assess both magnetic field interactions and potential mechanical vibrations…..

Summary of Answer to Review comments

(Example: list all review comments here and summarize the answers)

- The mechanical interface between the detector structure—including the large magnet system—and the final focusing magnet is critical. Close collaboration with the accelerator group is necessary to assess both magnetic field interactions and potential mechanical vibrations. Measurements of vibrations at the proposed CEPC site, along with an evaluation of their impact on beam offsets at the IP, are required…..
  - Answer: it has been answered in Page XX (for the ones already answered before)
- The estimated event rates for Bhabha scattering in the LumiCal detector fall within the nominal event rate. However, a dedicated high-rate LumiCal data stream will be necessary to accurately study beam backgrounds. The selected technology option appears to be technically feasible with current state-of-the-art capabilities and aims to achieve effective electron/gamma separation for radiative photons.……
  - Answer: We've added the detailed design in the report. (the ones not explained before will directly answer here)

Summary



Thank you for your attention!

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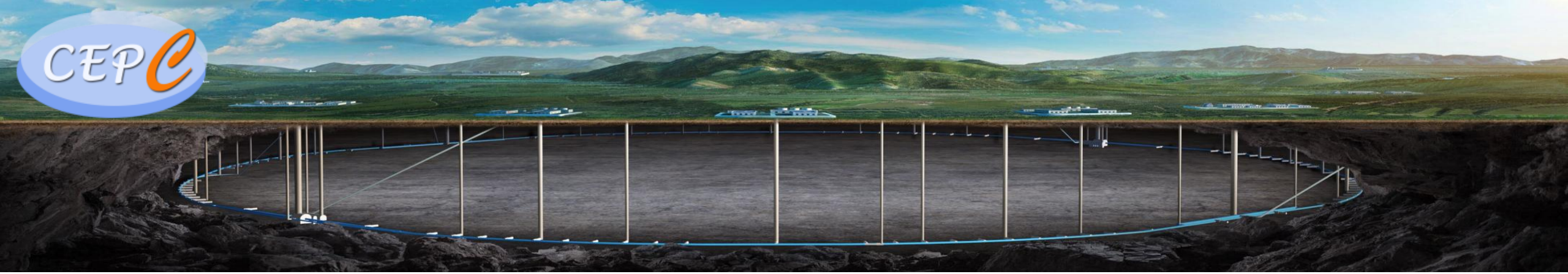

BACKUP

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R&D efforts and results

- Item 1
  - Sub item 1
- Item 2

Detailed design including electronics, cooling and mechanics

- Item 1
  - Sub item 1
- Item 2

Readout electronics & BEC

- Item 1
  - Sub item 1
- Item 2

Performance from simulation

- Item 1
  - Sub item 1
- Item 2

Research Team

Working plan

- Item 1
  - Sub item 1
- Item 2