Introductory remarks

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Institute of High Energy Physics
Chinese Academy of Sciences

November Workshop

- Next Week! Monday- Wednesday at IHEP
  - http://indico.ihep.ac.cn/event/6618/overview
    - Monday: plenary + parallel sessions
    - Tuesday: parallel sessions —> most of our work will be presented here
    - Wednesday: plenary session: discussion and summaries
  - Detector plenaries:
    - Nov 6: CEPC detector CDR status - Joao
      - This will be based on your reports today!
    - Not 8: Detector and Physics summary and plan - Speaker TBD
      - Feel free to send suggestions
  - Poster session starts on Monday during coffee break. Posters to be mounted during lunch time. They will stay until end of workshop.
- Number of attendees registered: ~254
  - ~1/3 from international institutions
- Program is now finalized
  - Check agenda

Posters

	Number
Vertex	1-2
Silicon Tracker	1
TPC	4
Electromagnetic Calorimeter	2
Hadronic Calorimeter	2
Dual Readout Calorimeter	2, Lorenzo Pezzotti, Massimiliano Antonello
Magnet System	4
Muon System	1
MDI	1 (detector background)
LumiCal	1/0
Physics and Performance	2
Other	2
Total	**21**

International Advisory Committee Meeting

- The fourth CEPC IAC meeting: November 8-9
  - http://indico.ihep.ac.cn/event/7390/overview
  - Some overlap with the workshop on November 8
    - Activities to start at 5 pm
  - CEPC CDR Status report to be presented on November 8
  - Main goal of this meeting is the discussion on how to broaden the internationalization of the CEPC project

International Advisory Committee

Young-Kee Kim, U. Chicago (Chair)
Barry Barish, Caltech
Hesheng Chen, IHEP
Michael Davier, LAL
Brian Foster, Oxford
Rohini Godbole, CHEP, Indian Institute of Science
David Gross, UC Santa Barbara
George Hou, Taiwan U.
Peter Jenni, CERN
Eugene Levichev, BINP
Lucie Linssen, CERN
Joe Lykken, Fermilab
Luciano Maiani, Sapienza University of Rome
Michelangelo Mangano, CERN
Hitoshi Murayama, UC Berkeley/IPMU
Katsunobu Oide, KEK
Robert Palmer, BNL
John Seeman, SLAC
Ian Shipsey, Oxford
Steinar Stapnes, CERN
Geoffrey Taylor, U. Melbourne
Henry Tye, IAS, HKUST
Yifang Wang, IHEP
Harry Weerts, ANL

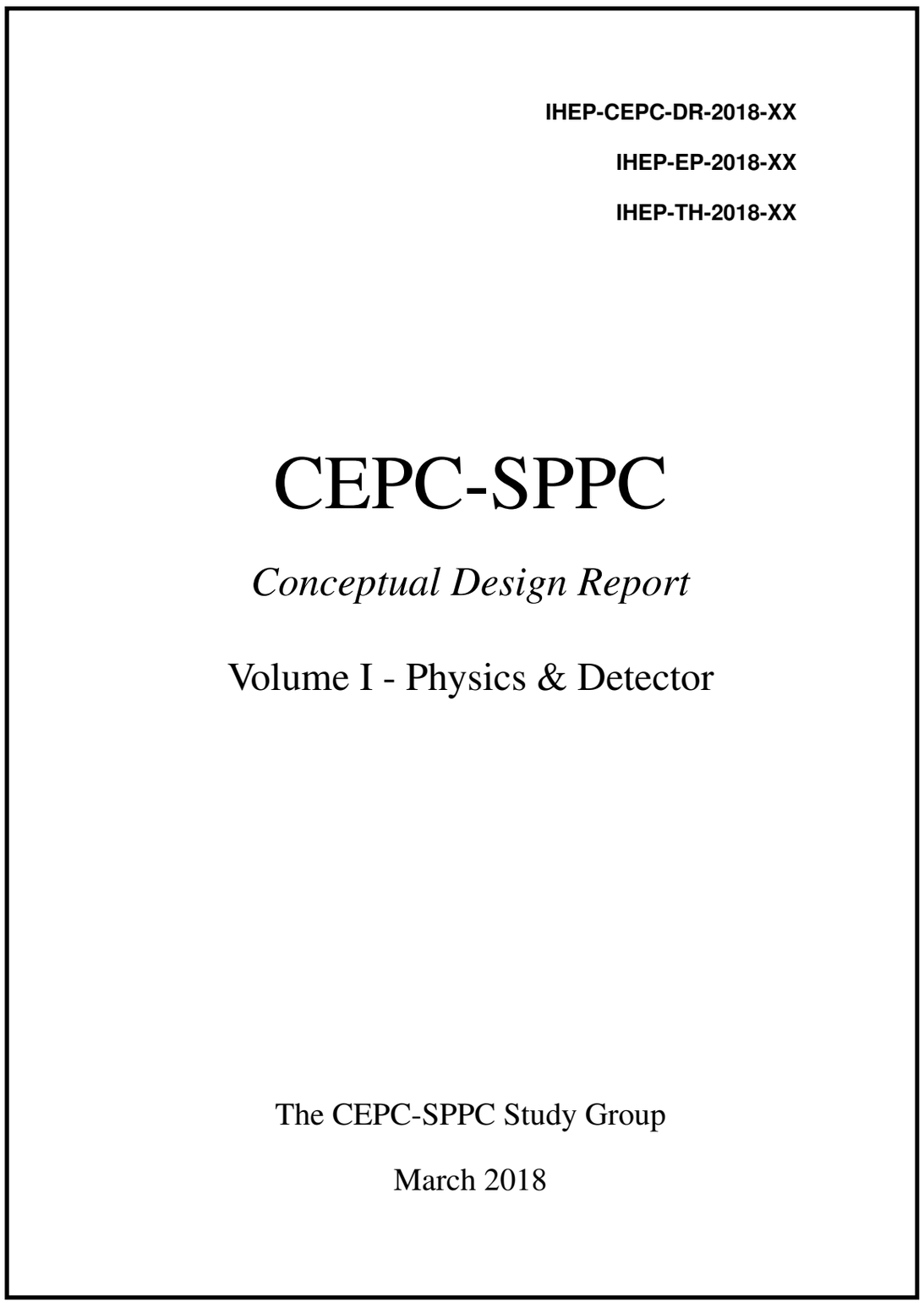
Minireview of CDR

- Following Next Week's workshop
  - Friday10 and Saturday 11
  - http://indico.ihep.ac.cn/event/7384/
  - **Informal review!**
    - Very short presentations about content of CDR
    - Followed by lengthier discussions with reviewers attendees
    - A few international attendees have volunteer to stay to review draft
    - Need the presence of at least one convener per group
      - Also very important to have CDR editors/contributors present
      - Contact: Zhaoru Zhang:
- Agenda:
  - http://indico.ihep.ac.cn/event/7384/

Minireview international attendees

Abe Seiden	UCSC	USA	In Writing
Charlie Young	SLAC	USA	Y
Sebastian Grinstein	Barcelona	Spain	Y
Franco Bedeschi	INFN	Italy	By video
Alberto Belloni	UMD	USA	Assistant Professor
Franco Grancagnolo	INFN	Italy	?
Imad Laktineh		France	?
Roberto Ferrari	INFN	Italy	?
Sasha	DESY	Germany	Y?
James Beachman	OSU	USA	Y
Jianming	Michigan University	USA	Y
LianTao	Chicago	USA	Y

CDR News


IHEP-CEPC-DR-2018-XX

IHEP-EP-2018-XX

IHEP-TH-2018-XX

CEPC-SPPC

Conceptual Design Report

Volume I - Physics & Detector

The CEPC-SPPC Study Group

March 2018

- Text slowly growing
  - Document is about 192 pages now
  - Still, lots of parts missing and lots of editing work needed
- Share your text using GIT repository:
  - http://cepcgit.ihep.ac.cn/cepcdoc/CDR/tree/master/CDR_draft
  - You are free to continue editing the text once you submit it to the repository
    - So, I would encourage you to start adding it now

Last Week's Version

CONTENTS

Workshop Detector Agenda

November 6th

Parallel I: 16:30-18:30			**Detector Concepts and System Aspects**	**Conveners: Massimo Caccia, Joao Guimaraes**
Talk 1	**16:30**	**0:20**	Full silicon detector CEPC detector concept	Weiming Yao
Talk 2	**16:50**	**0:20**	CMS experience with HGCAL	Alberto Belloni
Talk 3	**17:10**	**0:20**	Status of the CEPC magnet R&D	Zian Zhu
Talk 4	**17:30**	**0:20**	A second detector proposal for CEPC	Franco Bedeschi
Talk 5	**17:50**	**0:20**	Advanced DAQ systems for current and future colliders	Zhenan Liu
Talk 6	**18:10**	**0:20**	The CLIC-inspired FCCee detector	Oleksandr Viazlo

November 7th

Day II: 10/7 - Parallel Sessions

Parallel II: 8:00-10:00			**Silicon Vertex and Tracker**	**Conveners: Wang Meng, Daniela Bortolleto**
Talk 1	**8:00**	**0:20**	Status report from Vertex Detector group (15+5 min)	OUYANG Qun
Talk 2	**8:20**	**0:20**	Alpide and other developments	Walter Snoeys
Talk 3	**8:40**	**0:20**	Depleted CMOS detectors for HEP experiments	Sebastian Grinstein
Talk 4	**9:00**	**0:20**	Tracking in four dimensions	Amedeo Staiano
Talk 5	**9:20**	**0:20**	Overview of SOI development	LU Yunpeng
Talk 6	**9:40**	**0:20**	CMOS Pixel Sensors for ILC Related Vertexing & Tracking Device	Christine HU

Parallel III: 8:00-10:00			**Gas Detectors (Tracker, TPC and muons)**	**Conveners: Charlie Young, Soeren Prell, Yuanning Gao**
Talk 1	**8:00**	**0:30**	CEPC TPC R&D and design	Huirong Qi
Talk 3	**9:00**	**0:30**	An ultra-light drift chamber with particle identification capabilities	Franco Grancagnolo
Talk 4	**9:20**	**0:30**	Muon detector options for CEPC	Li Liang
Talk 5	**9:40**	**0:30**	MPGD overview	Atsuhiko Ochi

Workshop Detector Agenda

Parallel IV: 10:30-12:30			**Calorimeters**	**Conveners: Imad, Roberto, Jianbei**
Talk 1	**10:30**	**0:20**	CEPC ECAL R&D Status	Yunlong Zhang
Talk 2	**10:50**	**0:20**	CEPC HCAL R&D Status	Boxiang Yu
Talk 3	**11:10**	**0:20**	CALICE SiW status	Jean-Claude Brient
Talk 4	**11:30**	**0:20**	CALICE SDHCAL status	Haijun Yang
Talk 5	**11:50**	**0:20**	Dual Readout Calorimeter at the CEPC	Roberto Ferrari
Talk 6	**12:10**	**0:20**	Dual readout calorimeter external vision	Tianchi
Parallel V: 14:00-16:00			**Physics and Simulation**	**Conveners: Sasha, Patrizia, Yaquan and Manqi**
Talk 1	**14:00**	**0:20**	Fast Simulation for CEPC	LI Gang
Talk 2	**14:20**	**0:20**	Jet energy scale and resolution	Peizhu
Talk 3	**14:40**	**0:20**	Beam energy monitoring via Compton Scattering	Guangy
Talk 4	**15:00**	**0:20**	Computing at CEPC	Tian Yan
Talk 5	**15:20**	**0:20**	Deep Learning at CEPC	Fan Yang
Talk 6	**15:40**	**0:20**	New method form measure Higgs boson mass at e+e-	Junping Tian
Parallel VI: 16:30-18:15			**Physics and Simulation (Joint with Theory)**	**Conveners: Sasha, Patrizia, Yaquan and Manqi**
Talk 1	**16:30**	**0:20**	HI-LHC & challenge for CEPC - Higgs	Nicola De Filippis
Talk 2	**16:50**	**0:20**	HL-LHC & challenge for CEPC - EWK	Paolo Azzurri
Talk 3	**17:10**	**0:20**	Study of BR(H→gamma gamma)	Zhenyu Whu
Talk 4	**17:30**	**0:20**	Combination of CEPC Higgs precision measurement	Kaili Zhang
Talk 5	**17:50**	**0:25**	Long lived particles	John Beacham