

Introductory remarks and IDRDC Documents

João Guimarães da Costa

December 23, 2020



中国科学院高能物理研究所

*Institute of High Energy Physics
Chinese Academy of Sciences*



CEPC-related Events

- **CEPC Day, Monday Dec 28**
 - Physics/Detector Session in the afternoon in Beijing
- **2021 Hong Kong Conference and Program**
 - Full event to be held online
 - Please register at: <https://indico.cern.ch/event/971970/>
 - Mini-workshop, January 14-15, 2020
 - Particle Identification: Detectors and Physics
 - Organizers: Joao, Kirill Prokofiev, Mogens Dam
 - Conference, January 18-21, 2020
 - Parallel sessions in afternoon
 - Plenary sessions in the evening

IDRDC: Preparation for Next Meeting Preparation

Need to finalize documents to submit to committee

17 documents, 95 subtasks, 80 pages

Goal: Submission to committee by Jan 15 ==> Your input by end of year

PBS	Task Name	Page	Subtasks	Context	Team	Document Responsible
	CEPC Detector R&D Project					
1	Vertex					
1.1	Vertex Prototype	5	9	CEPC	China+ international collaborators	Zhijun, Ouyang
1.2	ARCADIA CMOS MAPS	6	6	Generic	INFN, Italy	Manuel Rolo
2	Tracker					
2.1	TPC Module and Prototype	6	12	CEPC	IHEP, Tsinghua	Huirong
2.2	Silicon Tracker Prototype	6	8	Generic	China, UK, Italy	Harald Fox, Meng Wang
2.3	Drift Chamber Activities	4	3	FCC-ee/CEPC	INFN, Novosibirsk	Franco Grancagnolo
3	Calorimetry					
3.1	ECAL Calorimeter					
3.1.1	Crystal Calorimeter	5	6	CEPC	IHEP, Princeton + others	Yong Liu
3.1.2	PFA Sci-ECAL Prototype	3	3	CEPC	USTC, IHEP	Jianbei Liu
3.2	HCAL Calorimeter					
3.2.1	PFA Digital Hadronic Calorimeter	4	5	CEPC	SJTU, IPNL, Weizmann, IIT, USTC	Haijun Yang, Imad Laktineh, Shikma Bressler
3.2.2	PFA Sci-AHCAL Prototype	4	4	CEPC	USTC, IHEP, SJTU	Jianbei Liu
3.3	Dual-readout Calorimeter	5	5	FCC-ee/CEPC	INFN, Sussex, Zagreb, South Korea	Roberto Ferrari
4	Muon Detector					
4.1	Scintillator-based Muon Detector	4	5	CEPC	Fudan, SJTU	Xiaolong Wang, Liang Li
4.2	Muon and pre-shower μ RWELL-	5	4	FCC-ee/CEPC	INFN, LNF	Paolo Giacomelli
5	Solenoid					
5.1	LTS solenoid magnet	4	4	CEPC	IHEP+Industry	Zhu Zian
5.2	HTS solenoid magnet	4	4	CEPC	IHEP+Industry	Zhu Zian
6	MDI					
6.1	LumiCal Prototype	4	2	ILC/CEPC	AC, IHEP	Suen Hou
6.2	Interaction Region Mechanics	3	4	CEPC	IHEP	Hongbo Zhu
8	Software and Computing	7	11	CEPC	IHEP, SDU	Li Weidong, Ruan Manqi, Sun Shengseng, Li Gang

IDRDC: Preparation for Next Meeting Preparation

Update time schedule for projects? Add new ones?

PBS	Task Name	Finish	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
			H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
	CEPC Detector R&D Project	26/12/31	CEPC Detector R&D Project									
1	Vertex	23/12/29	Vertex									
1.1	Vertex Prototype	23/12/29	Vertex Prototype									
1.2	ARCADIA CMOS MAPS	23/12/29	ARCADIA CMOS MAPS									
2	Tracker	24/12/31	Tracker									
2.1	TPC Module and Prototype	23/12/29	TPC Module and Prototype									
2.2	Silicon Tracker Prototype	23/10/31	Silicon Tracker Prototype									
2.3	Drift Chamber Activities	24/12/31	Drift Chamber Activities									
3	Calorimetry	24/12/31	Calorimetry									
3.1	ECAL Calorimeter	24/12/31	ECAL Calorimeter									
3.1.1	Crystal Calorimeter	21/12/31	Crystal Calorimeter									
3.1.2	PFA Sci-ECAL Prototype	24/12/31	PFA Sci-ECAL Prototype									
3.2	HCAL Calorimeter	22/12/30	HCAL Calorimeter									
3.2.1	PFA Digital Hadronic Calorimeter	21/12/31	PFA Digital Hadronic Calorimeter									
3.2.2	PFA Sci-AHCAL Prototype	22/12/30	PFA Sci-AHCAL Prototype									
3.3	Dual-readout Calorimeter	24/12/31	Dual-readout Calorimeter									
4	Muon Detector	24/12/31	Muon Detector									
4.1	Scintillator-based Muon Detector Prototype	23/12/29	Scintillator-based Muon Detector Prototype									
4.2	Muon and pre-shower μ RWELL-based detectors	24/12/31	Muon and pre-shower μ RWELL-based detectors									
5	Solenoid	26/12/31	Solenoid									
5.1	LTS solenoid magnet	25/12/31	LTS solenoid magnet									
5.2	HTS solenoid magnet	26/12/31	HTS solenoid magnet									
6	MDI	22/12/30	MDI									
6.1	LumiCal Prototype	20/12/31	LumiCal Prototype									
6.2	Interaction Region Mechanics	22/12/30	Interaction Region Mechanics									
8	Software and Computing	20/12/31	Software and Computing									

Submitting document by Jan 15 would allow to schedule committee meeting on Mar/Apr, giving about 6-months for the next meeting in ~October