

CEPC workshop summary

FCC software meeting

April 29, 2019
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CERN

.... just a “Summary of the summary by Michele”.

- https://indico.cern.ch/event/783429/contributions/3306684/attachments/1831419/2999374/tools_perf_summary.pdf

The International Workshop on the Circular Electron Positron Collider EU EDITION 2019

Oxford, April 15-17, 2019



<http://www.physics.ox.ac.uk/confs/CEPC2019/>

Scientific Committee:

Franco Bedeschi – INFN, Italy
Marica Biagini – INFN, Italy
Alain Blondel – University of Geneva, Switzerland
Daniela Bortoletto – University of Oxford, UK

Local Organizing Committee:

D. Bortoletto – University of Oxford
P. Burrows – University of Oxford
B. Foster – University of Oxford
Y. Gao – University of Liverpool

11:00	Higgs decays to long lived particles	Computing challenges and infrastructure	Characterisation of JadePi...	CEPC high efficiency klystron
	Probing leptogenesis at...	LHC Computing Overview	Full size pixel chip...	CEPC SCRF system
	Electroweak phase transition	Room 10	Status of ARCADIA project	Room 11 11:20 - 11:50
	Heavy resonances as a BSM interpretation of a potential ...	The FCCSW software	HV-CMOS research for low mass detectors	High field high Q large grain rf cavity
12:00	Low-mass vertex s...	Discussion	Mu3e ultra-low mass pixel d...	CEPC cryogenic system
		Room 10 12:30 - 13:00		Room 11 12:20 - 12:50
14:00	Rare and forbidden decay (FCNC) and new physics	Full G4 detector...	Status of R&D...	CEPC MD
	Rare Z decays and lepton universality	Calorimeter simulation	TPC technologies challenges	CEPC background
	cLFV in tau decay on the pole	Muon Simulation	Drift chamber tracker design experiences	CEPC radiation protection
15:00	Light mesons from tau decays	Fast Simulation of IDEA	Detector design solutions for tracking in the CMS High-L...	CEPC instrumentation and feedb...
	CKM from leptonic and semileptonic B/Bs/Bc/Lam...	Particle Flow Simulation i CLIC	ATLAS full silicon tracker design	CEPC mechanics system

Software Discussion

- Great talk summarising computing challenges at LHC from an IT perspective that set the stage (Alessandro di Girolamo)
 - Need for concurrency etc.
- Computing Requirements for CEPC (Xiaomei Zhang)
 - definitely not as bad as FCC-hh
- FCC sw overview (me)
- Developments toward a CEPC framework (Tao Lin) *
 - <https://github.com/SNiPER-Framework/sniper>
 - Gaudi: Problems cited with external dependencies
 - This got a lot better though!
 - And ROOT - I/O
 - We already do this (kind of)?
- Discussion hopefully continues in context of HSF and other fora
 - Workshop in italy in Junegren