

**<small>Workshop on the Circular
Electron-Positron Collider</small>

<small><small>EU
edition</small></small>**

Thursday 24 May 2018 - Saturday 26 May 2018

**Università degli Studi Roma Tre
Programme**

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Thursday 24 May 2018

Plenary A - Aula Magna del Rettorato (08:45-11:00)

time	title	presenter
08:45	Welcomes	TBD
09:00	Introduction and goals	FRANCO BEDESCHI
09:30	CepC Accelerator	JIE GAO
10:00	FCC Accelerator	BENEDIKT, Michael
10:30	LC Accelerator	TBD

Break - Aula Magna del Rettorato (11:00-11:30)

Plenary B - Aula Magna del Rettorato (11:30-13:00)

time	title	presenter
11:30	CepC phys/detectors	JOAO GUIMARAES DA COSTA
12:00	FCC phys/detectors	TENCHINI, Roberto
12:30	LC phys/detectors	TBD

Parallel session 1: MDI - Aula Magna del Rettorato (14:30-17:00)

Final focus/MDI/Machine backgrounds

- **Conveners: Dr. Koratzinos, Mike; Bozovic-Jelisavcic, Ivanka**

time	title	presenter
14:30	Experience from machines today	YASUSHI ARIMOTO
15:00	Overview of MDI of CepC	BAI, Sha
15:30	Detector Solenoid Compensation Scheme	SERGEY SINYATKIN
16:00	Beam induced backgrounds	HONGBO ZHU
16:20	Engineering aspects of the MDI design: mechanics, cryogenics and integration	PIVOVAROV, Sergey

Parallel session 2: Physics - Aula Magna del Rettorato (14:30-17:00)

Physics/Simulation

- **Conveners: Fulvio Piccinini, Manqi Ruan**

time	title	presenter
14:30	Z pole+WW	AZZURRI, Paolo
15:10	Z+Higgs	YAQUAN FANG
15:40	Top	VOS, Marcel
16:00	BSM	MELE, Barbara
16:30	Beam parameters	BLONDEL, Alain

Break - Aula Magna del Rettorato (17:00-17:30)

Plenary C - Aula Magna del Rettorato (17:30-18:40)

time	title	presenter
17:30	Summary parallel 1:MDI	MICHAEL KORATZINOS
18:00	Summary parallel 2: Physics	RUAN, Manqi
18:30	Day 2 logistic	BIAGIO DI MICCO

Friday 25 May 2018

Parallel 1a - Aula Magna del Rettorato (09:00-11:00)

Accelerator

- **Conveners: Jie Gao, Yunlong Chi, Catia Milardi, Eugene Levichev**

time	title	presenter
09:00	Crab-Waist	MILARDI, Catia
09:20	CepC/Booster optics	DOU WANG
09:40	CepC beam-beam effects & dynamic aperture	YUAN ZHANG
10:00	CEPC Z-pole polarization	SERGEI NIKITIN
10:20	Energy calibration in high energy colliders	IVAN KOOP
10:40	CEPC linac injector	CAI MENG

Parallel 2a - Aula Magna del Rettorato (09:00-11:05)

Physics/simulation

- **Conveners: Patrizia Azzi, Yaquan Fang, Gang Li, Jenny List**

time	title	presenter
09:00	CEPC Baseline detector concept	MANQI RUAN
09:25	IDEA detector concept	BEDESCHI, Franco
09:50	H->jetjet	BAYJU
10:15	H->tautau	YU DAN
10:40	H->gammagamma	FANGYI GUO

Parallel 3a - Aula Magna del Rettorato (09:00-11:00)

Trackers

- **Conveners: Daniela Bortoletto, Paolo Giacomelli, Zhijun Liang, Huirong Qi, Werner Riegler**

time	title	presenter
09:00	ALICE Silicon_TPC	WERNER RIEGLER
09:30	CepC pixel prototypes	XIN SHI
10:00	High granularity pixels for CepC	ZHOU YANG
10:30	A silicon vertex and tracking system for FCC-ee and CLIC	LEOGRANDE, Emilia (TBC)

Parallel 4a - Aula Magna del Rettorato (09:00-11:00)

Calorimeters

- **Conveners: Roberto Ferrari, Massimo Caccia, Jianbei Liu, Imad Laktineh**

time	title	presenter
09:00	CepC ECAL R&D	MINGYI DONG

09:30	CepC ECAL simulation/optimization	HANG ZHAO
10:00	CepC HCAL R&D	BOXYANG YU
10:30	CepC HCAL simulation/optimization	BING LIU

Break - Aula Magna del Rettorato (11:00-11:30)

Parallel 1b: Accelerator - Aula Magna del Rettorato (11:30-13:10)

Accelerator

- **Conveners: Jie Gao, Yunlong Chi, Catia Milardi, Eugene Levichev**

time	title	presenter
11:30	Electron sources for FCC-ee	ALEXEY LEVICHEV
11:50	CEPC Plasma accelerator injector	WEI LU
12:10	CEPC Ring RF system	JIYUAN ZHAI
12:30	CEPC SRF Cavity	PENG SHA
12:50	CEPC High efficiency Klystron	ZUSHENG ZHOU

Parallel 2b - Aula Magna del Rettorato (11:30-13:00)

Physics/simulation

- **Conveners: Patrizia Azzi, Yaquan Fang, Gang Li, Jenny List**

time	title	presenter
11:30	H->ZZ + anomalous coupling	YANYAN GAO
12:00	H->WW	TONG LI
12:30	Higgs cross section and width	HAO LIANG

Parallel 3b - Aula Magna del Rettorato (11:30-13:00)

- **Conveners: Daniela Bortoletto, Paolo Giacomelli, Zhijun Liang, Huirong Qi, Werner Riegler**

time	title	presenter
11:30	IDEA tracker	Dr. TASSIELLI, Giovanni Francesco
12:00	CepC full silicon option	CHENGDONG FU
12:30	ILD tracking system	TBD

Parallel 4b - Aula Magna del Rettorato (11:30-13:00)

- **Conveners: Roberto Ferrari, Massimo Caccia, Jianbei Liu, Imad Laktineh**

time	title	presenter
11:30	Dual Readout calorimetry overview	JOHN HAUPTMAN
12:00	DR test beam 2017 and future tests	ROMUALDO SANTORO
12:30	DR full simulation	MASSIMILIANO ANTONELLO (TBC)

Parallel 1c: Accelerator - Aula Magna del Rettorato (14:30-16:50)

Accelerator

- **Conveners: Jie Gao, Yunlong Chi, Catia Milardi, Eugene Levichev**

time	title	presenter
14:30	CEPC booster Magnet systems design	WEN KANG
14:50	CEPC collider ring magnets design	MEI YANG
15:10	Magnet polarimeter for FCC-ee	NIKOLAY MUCHNOI
15:30	CEPC Vacuum systems design	YONGSHEN MA
15:50	FCC-ee FF and IR vacuum system	ALEXANDER KRASNOV
16:10	Feedback Systems in Circular Collider	SALVATORE CASCHERA
16:30	Components for high current operation	DAVID ALESINI

Parallel 2c - Aula Magna del Rettorato (14:30-16:30)

Physics/simulation

- **Conveners: Patrizia Azzi, Yaquan Fang, Gang Li, Jenny List**

time	title	presenter
14:30	H->invisible	XIN SHI
15:00	Precision Higgs Combination	KAILI ZHANG
15:30	Machine learning for ee	PIERINI, Maurizio
16:00	Physics at the Z pole	ZHIJUN LIANG

Parallel 3c - Aula Magna del Rettorato (14:30-16:30)

Trackers

- **Conveners: Daniela Bortoletto, Paolo Giacomelli, Zhijun Liang, Huirong Qi, Werner Riegler**

time	title	presenter
14:30	The TPC for CepC	HUIRONG QI
15:00	Silicon detector mechanics	TIM JONES
15:30	CepC magnet R&D	ZIAN ZHU
16:00	Study of HTS option for CepC	FEIPENG NING

Parallel 4c - Aula Magna del Rettorato (14:30-16:30)

Calorimeters

- **Conveners: Roberto Ferrari, Massimo Caccia, Jianbei Liu, Imad Laktineh**

time	title	presenter
14:30	SiW EM calorimeter	VINCENT BOUDRY
15:00	ILC HCAL	BOUMEDIENE, Djamel
15:30	Latest developments at OMEGA	STEPHANE CALLIER

16:00	high frequency sampler chip	GARY VARNER
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Break - Aula Magna del Rettorato (16:30-17:00)

Parallel 1d - Aula Magna del Rettorato (17:00-18:40)

Accelerator

- Conveners: Jie Gao, Yunlong Chi, Catia Milardi, Eugene Levichev

time	title	presenter
17:00	New magnet/cavity alignment system	BENIAMINO DI GIROLAMO
17:20	CEPC cryogenic system	SHAOPENG LI
17:40	CEPC Power	WEIREN CHOU
18:00	CEPC Civil engineering	RENJIE SHI, YU XIAO, GUOQIANG SUN
18:20	HTS magnet	QINGJIN XU

Parallel 2d - Aula Magna del Rettorato (17:00-19:05)

Physics/simulation

- Conveners: Patrizia Azzi, Yaquan Fang, Gang Li, Jenny List

time	title	presenter
17:00	ee->ZH ISR correction	MARIO GRECO
17:30	W mass measurement	HENGNE LI
18:00	2HDM at ee	BRUCE MELLADO

Parallel 3d - Aula Magna del Rettorato (17:00-18:30)

Trackers

- Conveners: Daniela Bortoletto, Paolo Giacomelli, Zhijun Liang, Huirong Qi, Werner Riegler

time	title	presenter
17:00	e+e- muon detector overview	PAOLO GIACOMELLI
17:30	MPGD options	MARCO POLI LENER
18:00	RPC options	LIANG LI

Parallel 4d - Aula Magna del Rettorato (17:00-18:30)

Calorimeters

- Conveners: Roberto Ferrari, Massimo Caccia, Jianbei Liu, Imad Laktineh

time	title	presenter
17:00	Integral luminosity measurement at CEPC - detector requirements	IVANKA BOŽOVIC
17:30	Update on the CMS frw calorimeter	DAVID BARNEY

18:00 New CERN R working group

ROBERTO FERRARI

Saturday 26 May 2018

Plenary D - Aula Magna del Rettorato (09:00-11:00)

time	title	presenter
09:00	Plenary accelerators	YUNLONG CHI
09:30	Plenary Phys/Sim.	LI GANG
10:00	Plenary Trackers	BORTOLETTO, Daniela
10:30	Plenary Calorimeters	LAKTINEH, Imad (TBC)

Break - Aula Magna del Rettorato (11:00-11:30)

Plenary E - Aula Magna del Rettorato (11:30-13:05)

- Conveners: Biagio Di Micco, Xinchou Lou

time	title	presenter
11:30	Panel discussion on future machines and detector R&D	
12:40	Closing remarks IHEP	YIFANG WANG
12:50	Closing remarks INFN	ZOCCOLI, Antonio (TBC)