

3rd CERN-ECFA-NuPECC Workshop on the LHeC

Friday 12 November 2010

Opening - (09:00-10:00)

- Conveners: Dainton, J.B.

09:00	NuPECC	GAARDHOJE, J.J.
09:10	ECFA	NAKADA, T.
09:20	CERN	BERTOLUCCI, S.
09:30	Steering Group	KLEIN, M.

10:00 - 10:30	Coffee break
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Accelerator Session

(10:30-13:00)

- Conveners: Zimmermann, F.; Holzer, B.

10:30	RR basic parameters	HOLZER, Bernhard
10:50	RR lattice and optics	FITTERER, Miriam
11:10	RL basic parameters	ZIMMERMANN, Frank
11:30	RL lattice and beam dynamics	SCHULTE, Daniel
11:50	RR + RL magnets	TOMMASINI, Davide
12:10	Implementation plan	BRUNING, Oliver
12:30	Discussions	

13:00-14:00	Lunch
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(14:00-16:30)

- Conveners: Zimmermann, F.; Holzer, B. **(shared with Detector)**

14:00	RR Interaction Region	THOMPSON, Luke
14:20	LR Interaction Region	TOMAS, Rogelio
14:40	IR quadrupole magnets	RUSSENSCHUCK, Stephan
15:00	IR SR	BERNARD, Nathan
15:20	RR beam-beam effects	PIELONI, Tatiana
15:40	Vacuum	JIMENEZ, Jose Miguel
16:00	BNL studies	

16:30 - 17:00	Coffee break -
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(17:00-19:30)

- Conveners: Zimmermann, F.; Holzer, B.

17:00	RF	CIAPALA, Edmond
17:20	Cryogenics	HAUG, Friedrich
17:40	Sources + RL injector	RINOLFI, Louis
18:00	RR Injector	BURKHARDT, Helmut
18:20	Injection & beam dump	BRACCO, Chiara
18:40	Polarisation	WIENANDS, Uli
19:00	Integration & machine protection	MESS, Karl Hubert

20:00	Dinner -
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Detector Session

(10:30-13:00)

- Conveners: Kostka, P.; Polini, A.

10:30	Detector Requirements	KLEIN, Max
11:00	Detector Design Studies	KOSTKA, Peter
11:40	Beam pipe	VENESS, Raymond
12:00	Si pixel/strip Tracker	ALLPORT, Phil
12:30	Si-Gas pixel/strip Tracker	VAN DER GRAAF, H.

13:00-14:00	Lunch
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(14:00-16:30)

- Conveners: Kostka, P.; Polini, A. (shared with Accelerator)

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16:30 - 17:00	Coffee break -
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(17:00-19:30)

- Conveners: Kostka, P.; Polini, A.

17:00	Solenoids	TEN KATE, H.
17:20	Comparison with HERA/LHC/ILC Detectors	POLINI, A.
17:50	Calorimeter discussion	
18:20	Luminosity Measurement and e/y taggers	LEVONIAN, S.
18:40	Neutron Tagging	BUNYATIAN, A.
19:00	Proton Tagging	TBC

20:00	Dinner -
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Physics Session

Precision QCD & Electroweak - (10:30-13:00)

- Conveners: Behnke, Olaf

10:30	Introduction/overview of planned CDR chapter	BEHNKE, O. - GAMBINO, P. - GEHRMANN, T.
10:40	High pt Jet production at LHeC	GEHRMANN, T. - GLASMAN, C. - TERRON, J.
11:00	Inclusive NC & CC cross sections and structure functions	KLEIN, Max
11:20	QCD analysis (PDF & α_s)	RADESCU, Voica
11:40	Electroweak physics at LHeC	GAMBINO, Paolo
12:00	Heavy flavour production (c,b and top)	BEHNKE, Olaf
12:20	Discussion Session (00h40')	

13:00-14:00	Lunch
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Beyond the Standard Model - (14:00-15:20)

- Conveners: Perez, E.; Azuelos, G.

14:00	CDR: Overview of the "New Physics" chapter	PEREZ, Emmanuelle.- AZUELOS, George
14:30	Higgs boson at LHeC (00h30')	KLEIN, Uta - KUZE, M. - ISHITSUKA, Masaki
15:00	Discussion	

Physics at High Parton Densities in ep and eA (15:20 – 16:30)

- Conveners: Armesto Perez, Nestor

15:20	Overview of the HPD chapter	ARMESTO, Nestor
16:05	Small-x physics at the LHC	D'ENTERRIA, David

16:30 – 17:00	Coffee break -
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Physics at high parton densities in ep and eA (17:00 – 19:30)

- Conveners: Armesto Perez, Nestor

17:00	Predictions for F2 and FL in ep	LOPEZ ALBACETE, Javier
17:25	Nuclear pdf's	SALGADO LOPEZ, Carlos
17:50	Exclusive vector meson production in ep	WATT, Graeme
18:15	Exclusive vector meson production in eA	KOWALSKI, Henri Paul
18:40	Discussion on the HPD chapter	ARMESTO, N. - COLE, B. - NEWMAN, P. - STASTO, A.

20:00	Dinner -
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3rd CERN-ECFA-NuPECC Workshop on the LHeC
Saturday 13 November 2010

Plenary Session 1 - (09:00-10:30)

- Conveners: Muller, A.

09:00	Physics of High Parton Densities	STASTO, Anna
09:30	Precision QCD and Electroweak Physics	BEHNKE, Olaf
10:00	Physics at High Scales (00h30')	AZUELOS, Georges

10:30 – 11:00	<i>Coffee break</i>
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Plenary Session 2 - (11:00-13:00)

- Conveners: Bloch, Ph.

11:00	Detector Design	POLINI, Alessandro
11:30	LINAC Design	SCHULTE, Daniel
12:00	Ring Design	HOLZER, Bernhard
12:30	Conclusion of the Workshop	