

Electrons for the LHC - LHeC/FCCeh and Perle Workshop

Report of Contributions

Contribution ID: 2

Type: **not specified**

From the Discovery of Quarks to Future DIS at CERN

Wednesday 27 June 2018 09:30 (1 hour)

Presenter: KLEIN, Max (University of Liverpool (GB))

Session Classification: Plenary opening

Contribution ID: 3

Type: **not specified**

Coffee

Session Classification: Plenary opening

Contribution ID: 4

Type: **not specified**

PERLE at Orsay

Wednesday 27 June 2018 10:30 (30 minutes)

Presenter: KAABI, Walid (CNRS-IN2P3)

Session Classification: Plenary opening

Contribution ID: 5

Type: **not specified**

Coffee

Contribution ID: 6

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: 7

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: 8

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: 9

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: **10**

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: **11**

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: 12

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: **13**

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: 14

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: 15

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: **16**

Type: **not specified**

Parallel Session (Accelerator and PERLE)

Contribution ID: 17

Type: **not specified**

Parallel Session (Accelerator, PERLE and Interaction region)

Contribution ID: **18**

Type: **not specified**

Parallel Session (Physics and Detector)

Contribution ID: **19**

Type: **not specified**

Accelerator Summary

Friday 29 June 2018 10:00 (30 minutes)

Presenter: BRUNING, Oliver (CERN)

Session Classification: Summary of accelerator and PERLE

Contribution ID: 20

Type: **not specified**

Summary of Detector and Physics with ep I: [PDFs, EW]

Friday 29 June 2018 11:00 (20 minutes)

Presenter: ZHANG, Zhiqing Philippe (LAL, Orsay (FR))

Session Classification: Summary of Physics and Detector

Contribution ID: **21**

Type: **not specified**

Outlook Session

Contribution ID: 22

Type: **not specified**

Closed Session of the IAC

Contribution ID: 23

Type: **not specified**

Experiments with electrons from PERLE

Wednesday 27 June 2018 18:00 (30 minutes)

To connect by videoconference, see instructions in the main page and details here:

http://desktop.visio.renater.fr/scopia?ID=726841***4671&autojoin

Conference number 726841 (end by #)

Access code 4671 (end by #)

Presenter: BOONEKAMP, Maarten (Université Paris-Saclay (FR))

Contribution ID: 24

Type: **not specified**

Novel High-Energy Electron-Proton Collider Physics at the LHeC

Thursday 28 June 2018 17:00 (30 minutes)

To connect by videoconference, see instructions in the main page and details here:

http://desktop.visio.renater.fr/scopia?ID=729367***8075&autojoin

Conference number 729367 (end by #)

Access code 8075 (end by #)

Presenter: BRODSKY, Stanley J. (SLAC National Accelerator Laboratory, Stanford University)

Contribution ID: 25

Type: **not specified**

High precision polarimetry at the LHeC

Wednesday 27 June 2018 11:30 (15 minutes)

Presenter: MARTENS, Aurelien (Univ. P. et Marie Curie (Paris VI) (FR))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 26

Type: **not specified**

Forward instrumentation

Wednesday 27 June 2018 11:50 (15 minutes)

Presenter: NEWMAN, Paul Richard (University of Birmingham (GB))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 27

Type: **not specified**

Interaction Region at the EIC

Wednesday 27 June 2018 12:40 (20 minutes)

Presenter: ASCHENAUER, Elke (BNL)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: **28**

Type: **not specified**

The Electron Ion Collider

Wednesday 27 June 2018 12:10 (25 minutes)

Presenter: SURROW, Bernd (Temple University)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 29

Type: **not specified**

Review of Higgs coupling determination

Wednesday 27 June 2018 14:30 (25 minutes)

Presenter: KLEIN, Uta (University of Liverpool (GB))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: **30**

Type: **not specified**

Invisible Higgs and relation to ee and pp, also with DM

Wednesday 27 June 2018 15:00 (15 minutes)

Presenter: KUZE, Masahiro (Tokyo Institute of Technology (JP))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 31

Type: **not specified**

Flavor violating signature of Higgs boson at the LHeC (remote)

Wednesday 27 June 2018 15:25 (15 minutes)

Presenter: HERNÁNDEZ, Jaime (Benemerita Universidad Autónoma de Puebla)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 33

Type: **not specified**

Resummation

Wednesday 27 June 2018 16:55 (15 minutes)

Presenter: SARKAR, Amanda (University of Oxford (GB))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 34

Type: **not specified**

Impact of resummation on Higgs and other observables (remote)

Wednesday 27 June 2018 16:35 (15 minutes)

Presenter: Dr MARZANI, Simone (Università di Genova and INFN Genova)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 35

Type: **not specified**

Impact of LHeC PDFs on LHC EW precision measurements

Wednesday 27 June 2018 15:45 (15 minutes)

Presenter: ANDARI, Nansi (Université Paris-Saclay (FR))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 36

Type: **not specified**

Exclusive vector meson production with eSTARLIGHT (remote)

Wednesday 27 June 2018 17:40 (15 minutes)

Presenter: KLEIN, Spencer (University of California Berkeley (US))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 37

Type: **not specified**

Detector overview

Thursday 28 June 2018 09:30 (20 minutes)

Presenter: KLEIN, Max (University of Liverpool (GB))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: **38**

Type: **not specified**

Towards DIS at NNNLO (remote)

Thursday 28 June 2018 10:20 (15 minutes)

Presenter: MOCH, S. (UHH)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: **39**

Type: **not specified**

Diffraction

Thursday 28 June 2018 10:40 (15 minutes)

Presenter: STASTO, Anna (Pennsylvania State University (US))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 41

Type: **not specified**

Elastic vector meson production

Thursday 28 June 2018 11:30 (15 minutes)

Presenter: Dr MÄNTYSAARI, Heikki (University of Jyväskylä)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 42

Type: **not specified**

A view on small-x physics

Thursday 28 June 2018 11:50 (20 minutes)

Presenter: MARQUET, Cyrille (CPHT - Ecole Polytechnique)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 43

Type: **not specified**

How could heavy ion physics at the energy frontier profit from LHeC measurements (EXP point of view)

Thursday 28 June 2018 12:15 (20 minutes)

Presenter: MORREALE, Astrid (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 44

Type: **not specified**

How could heavy ion physics at the energy frontier profit from LHeC measurements (TH point of view)

Thursday 28 June 2018 12:40 (20 minutes)

Presenter: GONZALEZ FERREIRO, Elena (Universidade de Santiago de Compostela (ES))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 45

Type: **not specified**

Overview on top physics

Thursday 28 June 2018 14:30 (20 minutes)

Presenter: SCHWANENBERGER, Christian (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 46

Type: **not specified**

Top Quark FCNC $tq\Box$ and tqZ Couplings at LHeC and FCC-eh

Thursday 28 June 2018 14:55 (15 minutes)

Presenter: ÇAKIR, Orhan (Ankara University (TR))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 47

Type: **not specified**

Update on studies with inclusive DIS on EW physics at LHeC/FCC-eh

Thursday 28 June 2018 15:15 (20 minutes)

Presenter: BRITZGER, Daniel (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 48

Type: **not specified**

Review on sterile neutrinos

Thursday 28 June 2018 16:10 (20 minutes)

Presenter: FISCHER, Oliver (Unibas)

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 49

Type: **not specified**

Review on BSM

Thursday 28 June 2018 16:35 (20 minutes)

Presenter: D'ONOFRIO, Monica (University of Liverpool (GB))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 52

Type: **not specified**

Color fluctuations and photon-nucleus scattering

Wednesday 27 June 2018 17:15 (15 minutes)

Presenter: STRIKMAN, Mark (Pennsylvania State University (US))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 53

Type: **not specified**

Proton PDFs at the LHeC and the FCC-eh

Thursday 28 June 2018 09:55 (15 minutes)

Presenter: POWNALL, Gavin (University of Oxford (GB), DESY (DE))

Session Classification: Parallel Sessions (Physics and Detector)

Contribution ID: 54

Type: **not specified**

Why PERLE as an ERL demonstrator

Wednesday 27 June 2018 11:30 (20 minutes)

Presenter: WILLIAMS, Peter

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 55

Type: **not specified**

Upgrade of the ALICE e- Photocathode Gun to 20mA

Wednesday 27 June 2018 11:55 (20 minutes)

Presenter: MILITSYN, Boris (STFC)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 56

Type: **not specified**

Design of PERLE injector

Wednesday 27 June 2018 12:20 (20 minutes)

Presenter: HOUNSELL, Benjamin (Liverpool University -LAL)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 57

Type: **not specified**

Report on PERLE magnet Design

Wednesday 27 June 2018 12:45 (20 minutes)

Presenter: VALLÉRAND, Cynthia (LAL-CNRS)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 58

Type: **not specified**

Recent Results on a Multi-Cell 802 MHz bulk Nb Cavity

Wednesday 27 June 2018 14:30 (20 minutes)

Presenter: BOGACZ, Alex (JLAB)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 59

Type: **not specified**

Development and Study of HOM coupler for the SRF ERL

Wednesday 27 June 2018 14:55 (20 minutes)

Presenter: GORGI ZADEH, Shahmam (Rostock University)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **60**

Type: **not specified**

Cryostat Options for the SRF of the ERL of the LHeC and FCC-eh implementations

Wednesday 27 June 2018 15:20 (20 minutes)

Presenter: BOUSSON, Sébastien (IPNo-CNRS)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **61**

Type: **not specified**

The Fixed Field return arc option for PERLE and LHeC

Wednesday 27 June 2018 16:30 (25 minutes)

Presenter: TRBOJEVIC, Dejan (BNL)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **62**

Type: **not specified**

Possible nuclear-physics avenues offered by a Orsay-hosted 450-MeV PERLE

Wednesday 27 June 2018 17:00 (25 minutes)

Presenter: VERNEY, David (IPNo-CNRS)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 63

Type: **not specified**

ERL requirements and operation goals for electron beam based hadron beam cooling at the EIC design options

Wednesday 27 June 2018 17:30 (25 minutes)

Presenter: TRBOJEVIC, Dejan (BNL)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **64**

Type: **not specified**

Summary of the CBETA status and commissioning

Thursday 28 June 2018 09:30 (25 minutes)

Presenter: HOFFSTAETTER, Georg (Cornell University)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 65

Type: **not specified**

Summary of the bERLinPro status and commissioning

Thursday 28 June 2018 10:00 (25 minutes)

Presenter: KUSKE, Bettina (Helmholtz-Berlin)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **66**

Type: **not specified**

Summary and Status of the MESA ERL

Thursday 28 June 2018 10:30 (25 minutes)

Presenter: HUG, Florian (Mainz University)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 67

Type: **not specified**

Scaling options and cost estimate for the LHeC ERL

Thursday 28 June 2018 11:30 (20 minutes)

Presenter: BRUNING, Oliver (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **68**

Type: **not specified**

Options for the LHeC ERL –Performance Optimization

Thursday 28 June 2018 11:55 (20 minutes)

Presenter: BOGACZ, Alex (JLAB)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: **69**

Type: **not specified**

Progress with FCC-eh IR design and SR load

Thursday 28 June 2018 12:20 (20 minutes)

Presenter: MARTIN, Roman (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 70

Type: **not specified**

Update on the civil engineering work for LHeC and FCC-eh

Thursday 28 June 2018 12:45 (20 minutes)

Presenter: STUART, Matthew James (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 71

Type: **not specified**

CLIC Technology as an Option for the electron accelerator of an eh collider

Thursday 28 June 2018 14:30 (20 minutes)

Presenter: ZIMMERMANN, Frank (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 72

Type: **not specified**

Development of High Current Polarized e- guns

Thursday 28 June 2018 14:55 (20 minutes)

Presenter: GRAMES, Joseph (JLAB)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 73

Type: **not specified**

Performances of thermionic cathodes

Thursday 28 June 2018 15:20 (20 minutes)

Presenter: PERINI, Diego (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 74

Type: **not specified**

Latest Developments and Progress on the IR magnet design

Thursday 28 June 2018 16:10 (20 minutes)

Presenter: PARKER , Brett (BNL)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 75

Type: **not specified**

Dynamic Aperture in the LHeC and FCC-eh with IR magnet errors

Thursday 28 June 2018 16:35 (20 minutes)

Presenter: CRUZ ALANIZ, Emilia (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 76

Type: **not specified**

Production of electron beams using lasers at CERN: research, development and operation

Wednesday 27 June 2018 15:45 (20 minutes)

Presenter: GRANADOS, Eduardo (CERN)

Session Classification: Parallel Sessions (Accelerator and PERLE)

Contribution ID: 77

Type: **not specified**

Opening

Wednesday 27 June 2018 09:15 (15 minutes)

Presenter: STOCCHI, achille (LAL CNRS Universite Paris Sud)

Session Classification: Plenary opening

Contribution ID: 78

Type: **not specified**

PERLE Summary

Friday 29 June 2018 10:30 (30 minutes)

Presenter: KAABI, Walid (CNRS-IN2P3)

Session Classification: Summary of accelerator and PERLE

Contribution ID: 79

Type: **not specified**

Summary of Physics with ep II: [Higgs, top, BSM]

Friday 29 June 2018 11:20 (35 minutes)

Presenter: SCHWANENBERGER, Christian (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Summary of Physics and Detector

Contribution ID: **80**

Type: **not specified**

Summary of Small x and Physics with eA

Friday 29 June 2018 11:55 (20 minutes)

Presenter: ARMESTO PEREZ, Nestor (Universidade de Santiago de Compostela (ES))

Session Classification: Summary of Physics and Detector

Contribution ID: **81**

Type: **not specified**

PERLE at Orsay

Friday 29 June 2018 12:15 (15 minutes)

Presenter: BOUSSON, Sebastien

Session Classification: Outlook Session

Contribution ID: **82**

Type: **not specified**

Towards European Strategy

Friday 29 June 2018 12:30 (15 minutes)

Presenter: KLEIN, Max (University of Liverpool (GB))

Session Classification: Outlook Session

Contribution ID: **83**

Type: **not specified**

Concluding Remarks

Friday 29 June 2018 12:45 (15 minutes)

Presenter: SCHOPPER, Herwig (CERN)

Session Classification: Outlook Session