

Preparation of the Chavannes Workshop

Max Klein

Meeting of the Organisers, for Chavannes 24+25.10.2019

<https://indico.cern.ch/event/835947/>

Goal and Cost of the Chavannes Workshop

Draft text on the indico (tbc)

Workshop on the LHeC, FCC-eh and PERLE

The workshop is mainly devoted to the update of the 2012 LHeC Conceptual Design Report, with a document which will be released in the fall: "**The Large Hadron Electron Collider at the HL-LHC**". It will also discuss the status and progress on the electron-hadron part of the Future Circular Collider, the FCC-eh, following the release of the FCC CDR papers earlier this year. For both **LHeC** and **FCC-eh**, the intense electron beam should be delivered by a high-current, 3-turn energy recovery linac (ERL), a configuration which will be studied with the ERL facility **PERLE** under preparation in international collaboration at Orsay. The workshop is held near to CERN as a two-day plenary event. There will be time given to new ideas and an emphasis be placed to the future of energy frontier deep inelastic scattering.

Mainly: present a 50 GeV LHeC as a realistic prospect for the HL-LHC, modular for FCC-hh, based on ERL+PERLE

Sponsors: ARIES: 6k Euro, FCC: 3k SF, Brodry: 3k SF, Orsay 3k Euro (tbc), Cockcroft 3k £ (tbc) + ? → 18k SF (6 tbc)
Fee: 70 SF: * 100 = 7k SF: total could be 25 kSF: so far Chavannes wants 15 kSF (EK tbc). Fund also an **LHeC brochure** (5k)

CDR Update

CERN-ACC-Note-2019-XXX
Geneva, July 13, 2019



The Large Hadron-Electron Collider at the HL-LHC

From resolving the partonic structure of matter to Higgs and BSM physics

LHeC Collaboration



Submitted to J.Phys. G

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Thursday:

Welcome Coffee 9.00-9.30

Session I : 9.30—12.30 [intro, QCD, Higgs]

Lunch

Session II: 14.00-16.00 [ERL Accelerator]

Coffee

Session III: 16.30-18.30 [BSM, eA]

Dinner: 19.00+

6 sessions, with altogether $7 + 5 = 12$ h time for presentations and discussions. So far plenary only
There should be time for new ideas, external presentations

This week: draft programme in more detail, contact [first] speakers? **Send out bulletin 1 with registration**

Friday:

Session IV: 9.00-11.00 [PERLE]

Coffee

Session V: 11.30 – 13.00 [Detector, IR]

Lunch

Session VI: 14.00-15.30 [LHC+LHeC, conclusion]

Coffee

IAC: 16.00-18.00

Program Structure [following the meetings discussion]

Thursday:

Welcome 9.00-9.30

Session I : 9.30—10.30 [intro, basics on LHeC (5)]

Coffee

Session II: 11.00-13.00 [PDFs, low x, eweak, top (6)]

Lunch

Session III: 14.00-16.00 [ERL Accelerator, IR, .. (11)]

Coffee

Session IV: 16.30-19.00 [ep and pp, BSM, Higgs (8,9,10)]

Dinner: 19.30+

Friday:

Session V: 9.00-11.00 [ERL+PERLE (15)]

Coffee

Session VI: 11.30 – 13.00 [Detector, eA (12,7)]

Lunch

Session VII: 14.00-15.30 [ep at FCC (14), outlook]

Coffee

IAC: 16.00-18.00

In red are chapter numbers from the ToC of the paper (see above)