

# LHeC Workshop

Chavanne-de-Bogis,  
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# Introductory remarks to Panel

**Panel not at the end of the workshop  
for practical reasons**

(e.g. Sergio and other have to leave)

**Not a summary now,  
but to explain overall frame of LHeC**

**No discussion on details now**

# Predictions for long-term future of CERN are difficult at present time

- After the fantastic results of LHC and its experiments **future direction not obvious, no clear signs for new physics**
- **no decisions** for new projects will be taken **before results of next run of LHC are known**
- Final decisions on next large projects will have to take into account:
  - **physics interests** as to be known then,
  - **decisions in other continents** (e.g. ILC),
  - **resources in Member States.**

**Be prepared for all possibilities**  
**as has been the tradition of CERN**  
**Part of its success**

**Director General Rolf Heuer with Directors decided:**

**1. Decision:**

To set up **LHeC Coordination Group**  
(continuation of previous ep study group guided  
by Max Klein and Oliver Brüning)

**within new frame of CERN  
approved road map**

# LHeC Coordination Group

## Tasks:

**investigate the possibilities**

**(report to CERN Directorate)**

**about possible developments and options for**

- **future e-p and e-ion scattering** at CERN
- at **high energies** and **high luminosities**
- at **LHC and FCC** as a function of machine parameters and for realistic detector design
- suggest steps for the **necessary technologies** (e.g. rf SC cavities)
- investigate the design and possible approval of an **ERL test facility** at CERN

## My clarifying remark:

Any ep/eA project **cannot be a major CERN flagship project**

Essentially only one experiment,  
cannot satisfy > 8000 users

**not in competition** with main projects  
(HL-LHC, HE-LHC, CLIC, FCC)

**complementary** (in time, resources)

## 2. Decision by Directors

Establish **International Advisory Committee IAC**  
for an initial **period 2014-2017**

(composition not yet finalised)

- to report to **CERN Directorate** and give advice  
to **LHeC Coordination Group**

on the **above mentioned topics** with respect to the  
scientific and technical directions,

- give assistance in

**building the international case and cooperation**

- give **guidance to the resources, infrastructure and  
science policy** aspects of an ep/eA collider.

## **International collaboration will be essential**

- **for experiments (detectors, intersections)**
- **accelerator design (parameters, optimisation)**
- **preparing necessary technology (SC rf cavities, possibly ERL test facility)**

**As in the tradition of CERN**

# Thanks to :

- **Sergio Bertolucci and Frederick Bordry for helping to get these decisions**
- **Max Klein and Oliver Brüning for their initiative and all the preparations**
- **Members of the Coordination Group and Members of IAC for their preparedness to help**
- **All participants of Workshop for their interest  
Laurie Hemery for practical assistance**