



EUROPEAN STRATEGY PREPARATORY GROUP

Minutes of the ninth meeting held on
Tuesday, 12 June 2012

Present: P. Braun-Munzinger P. Chomaz, C. De Clercq, K. Desch*, M. Diemoz*,
K. Huitu, M. Krammer, P. McBride*, T. Nakada (Chairman), E. Tsesmelis
(Scientific Assistant), D. Wark, A. P. Zarnecki, F. Zwirner

* by video link

Apologies: R. Aleksan, P. Jenni, Y. Kuno

1. PROCEDURE

The minutes of the eighth ESPG meeting (ESPG 2012-005 / ESPG 008) were approved.

2. THE OPEN SYMPOSIUM

The ESPG discussed the organization and the scientific programme for the Open Symposium.

The ESPG agreed to support the participation of the speakers and scientific secretaries of the Open Symposium by waiving their registration fees. In addition, it was agreed that an offer would be made to the non-European speakers to cover their travel costs. Contributions for this purpose will be made by the National Laboratories to a central budget account to be created at CERN and which will be used to cover these expenses.

Michael Turner, the remaining unconfirmed speaker, has agreed to participate and to deliver the presentation summarizing activities in regions beyond Europe in the session Astroparticle Physics, Gravitation and Cosmology.

The list of conveners and scientific secretaries was reviewed:

- Opening Session
 - Convener: T. Nakada
- Physics at the High Energy Frontier and Flavour Physics
 - Session I - Convener: Y. Kuno; Scientific Secretary: Roger Forty
 - Session II - Convener: K. Desch and M. Diemoz; Scientific Secretary: Alison Lister
- Strong Interaction Physics
 - Convener: P. Braun-Munzinger; Scientific Secretary: Krzysztof Kutak
- Astroparticle Physics, Gravitation and Cosmology
 - Convener: C. De Clercq; Scientific Secretary: to be confirmed
- Physics of Neutrinos
 - Convener: D. Wark; Scientific Secretary: Enrique Fernandez Martinez
- Accelerator Science and Technology
 - Convener: R. Aleksan; Scientific Secretary: Frank Zimmermann

- Instrumentation, Computing and General Infrastructure
 - Convener: P. McBride; Scientific Secretary: Erika Garutti
- Particle Physics Theory
 - Convener: K. Huitu; Scientific Secretary: Pietro Slavich
- Status of Other Regions and Closing Discussion
 - Convener: T. Nakada

T. Nakada will now send the invitations to the scientific secretaries.

The ESPG also reviewed the status of preparations for the scientific sessions:

Astroparticle Physics, Gravitation and Cosmology

The presentation of C. Spiering on the status and vision of European astroparticle physics will primarily emphasise the physics and the priorities for future research should come later. Topics to be covered in this presentation are high-energy cosmic-rays; gravitational experiments; dark energy; neutrino-less double beta decay; direct and indirect dark matter (axions and WIMPS).

Physics of Neutrinos

The ESPG proposed to move the presentation on the measurement of the absolute mass of the neutrinos to the beginning of the session. The presentations on neutrino oscillations and future plans for long- and short-baseline experiments will follow. Also, the ordering of the two sessions is changed such that now the astroparticle session comes first and is followed by the neutrino session.

Strong Interaction Physics

The next CERN-ECFA-NuPECC LHeC workshop will be held on 14-15 June 2012 in Chavannes-de-Bogis. ECFA will be represented by Thomas Muller and he will give a presentation reporting on the workshop to Plenary ECFA in July 2012 at PSI. In addition to reviewing the status of the LHeC physics together with the design of the accelerator and detectors, the workshop will also serve the purpose of collecting input for the European Strategy. Input from regional reports from BNL and Jefferson Lab will also be solicited for the European Strategy.

A ‘town meeting’ on heavy-ion physics will be held at CERN on 29 June 2012 to prepare input for the Open Symposium. Projects to be covered include heavy-ion physics at the LHC, NICA, and FAIR while reference will also be made to RHIC. In particular, discussion will include future plans for heavy-ion physics for ALICE, ATLAS and CMS; the future of the fixed-target heavy-ion programme at CERN and at FAIR, and the heavy-ion physics programme at the NICA collider.

Two talks will be given in this session. Emphasis of the presentations will be on large facilities.

In addition, the ESPG discussed the preparation of documents providing additional information and guidelines to the speakers. The conveners of each session will prepare short abstracts (half page) to be distributed to the speakers. The conveners should submit their draft abstracts to the ESPG within the following two weeks for comments before release to the speakers.

3. PREPARATION OF THE BRIEFING BOOK

The ESPG discussed the timetable for the preparation of the Briefing Book. The ESPG confirmed that the Briefing Book would be needed six weeks in advance of the Erice meeting and that the timetable for its preparation remains as follows:

- First draft of complete skeleton (internal deadline) – 5 October
- Deadline for submission – 15 October

- First complete draft – 22 October
- Final draft – 16 November
- Completed draft – 7 December

The draft will be prepared in LATEX.

4. AOB

The ESPG agreed that a representative from JINR should participate in meetings of the European Strategy Group.

The Japanese scientific community is preparing input to be submitted to the Open Symposium, with the chair of the committee preparing this input intending to participate in the Open Symposium in Krakow. The KEK road-map is under preparation and will most likely not be known even by the Strategy Group meeting in Erice in January 2013.

A submission from FNAL should also be made for LBNE, particularly in view of the international collaboration context.

5. DATES FOR ESPG MEETINGS

24 July 2012 (start at 11:00)

There will be a meeting of the ESPG in Krakow on 9 September 2012 (start at 14:30)

A DOODLE poll will be made to decide the dates for the ESPG meetings for the second part of 2012.

The European Strategy Group meeting will be at CERN on 19 June 2012 (14:00-18:00).

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