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ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE
CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

COUNCIL

Two hundred-and-seventh Session
Geneva – 24 and 25 March 2022

RESTRICTED COUNCIL

Participation by videoconference and in person

SUMMARY OF CONCLUSIONS

LIST OF PARTICIPANTS¹

<u>President:</u>	Professor Eliezer Rabinovici	France
<u>Participants:</u>	Professor Jochen Schieck Mr Nicolas Wimberger	Austria
	<i>Mr Frank Duhamel</i> <i>Dr Ir. Véronique Halloin</i> Professor Dirk Ryckbosch	Belgium
	<i>Professor Leandar Litov</i> <i>Professor Dimitar Tonev</i>	Bulgaria
	<i>Mr Branislav Gál</i> Professor Rupert Leitner Mr Ondřej Novák	Czech Republic
	<i>Mr Frej Sorento Dichmann</i> <i>Professor Jens Jørgen Gaardhøje</i>	Denmark
	Professor Paula Eerola Mr Ossi Malmberg	Finland
	Professor Anne-Isabelle Etienvre Mr Léo Laporte	France
	<i>Professor Klaus Desch</i> <i>Dr Volkmar Dietz</i> <i>Dr Friederike Trimborn-Witthaut</i>	Germany
	Professor Konstantinos Fountas	Greece
	<i>Professor Péter Lévai</i>	Hungary
	<i>H.E. Ms Meirav Eilon Shahar</i> Professor Marek Karliner	Israel
	Professor Cristina Biino <i>Ms Marie Sol Fulci</i> Professor Antonio Zoccoli	Italy
	Professor Eric Laenen Ms Mirjam. Lieshout-Vijverberg	Netherlands
	<i>Dr Liv Furuberg</i> <i>Professor Eivind Osnes</i>	Norway

¹ Names in italics indicate participation by videoconference

<i>Dr Dariusz Drewniak</i> <i>Ms Agnieszka Hardej-Januszek</i> Professor Tadeusz Lesiak	Poland
Ms Ana Luisa Nunes Barata <i>Professor Mário Pimenta</i>	Portugal
<i>Dr Calin Alexa</i> <i>Dr Florin Buzatu</i>	Romania
Professor Peter Adžić <i>H.E. Mr Dejan Zlatanović</i>	Serbia
Ms Anna Hrabovská Professor Stanislav Tokár	Slovakia
<i>Ms Inmaculada Figueroa</i> Mr Juan Manglano	Spain
Dr Mathias Hamberg Professor Kerstin Jon-And	Sweden
Professor Florencia Canelli Dr Gregor Haefliger	Switzerland
<i>Professor Jonathan Butterworth</i> <i>Dr Shabana Haque</i> Professor Mark Thomson	United Kingdom

Associate Member States in the Pre-stage to Membership:

<i>Mr Christos Makriyiannis</i> <i>Professor Panos Razis</i>	Cyprus
Mr Robert Aare <i>Dr Mario Kadastik</i> Dr Kairi Otto	Estonia
<i>Ms Sabina Carli</i> <i>Professor Danilo Zavrtanik</i>	Slovenia

Associate Member States:

Not represented	Croatia
<i>Mr Sunil Ganju</i>	India
H.E. Mr Bahtijors Hasans Dr Dmitrijs Stepanovs	Latvia
<i>Professor Jūras Banys</i> <i>Dr Aurelijus Rinkevicius</i>	Lithuania
<i>Mr Muhammad Omar</i> <i>Dr Zafer Yasin</i>	Pakistan

Dr Orkun Hasekioğlu Mr Ali Sezgin Isilak Ms Berna Yüksel	Turkey
Professor Borys Grynyov	Ukraine

Invited for Items on HL-LHC matters and on LHC matters

<i>Dr Abid Patwa</i> <i>Dr Simona Rolli</i> <i>Dr James Shank</i>	Representatives of the USA
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Invited for Item on LHC matters

<i>Professor Yasuhiro Okada</i> Mr Kosuke Terasaka	Representatives of Japan
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Also Present:

Dr Umberto Dosselli	Chair of the Finance Committee
Professor Leonid Rivkin	Chair of the Scientific Policy Committee
Professor Karl Jakobs	Chair of ECFA
<i>Professor Barbro Åsman</i>	Chair of TREF

CERN Officials:

Dr Fabiola Gianotti	Director-General
Mr Raphaël Bello	Director for Finance and Human Resources
Dr Mike Lamont	Director for Accelerators and Technology
Professor Joachim Mnich	Director for Research and Computing
Ms Charlotte Warakaulle	Director for International Relations

CERN Services:

Ms Kirsten Baxter	Legal Counsel
Ms Lisa Morris <i>Mr John Pym</i>	Minute-Writers
Ms Vedrana Zorica	Council Secretariat

RESTRICTED COUNCIL

1. REPORT ON THE CREDENTIALS

(Item 1 of the Agenda)

The Council took note of the report by the Director-General, in her capacity as Secretary of the Council, to the effect that the credentials of all the delegations were in order.

2. MATTERS ARISING FROM THE PREVIOUS MEETING

(Item 2 of the Agenda)

There were no matters arising.

3. ADOPTION OF THE AGENDA

(Item 3 of the Agenda) (CERN/3621/Rev.)

The agenda (CERN/3621/Rev.) was adopted.

4. APPROVAL OF THE DRAFT MINUTES OF THE TWO-HUNDRED-AND-FIFTH SESSION - RESTRICTED COUNCIL

(Item 4 of the Agenda) (CERN/3622/RA/Draft)

The Minutes of the Two-hundred-and-fifth Session - Restricted Council (CERN/3622/RA/Draft), as amended, were approved.

5. PRESIDENT'S REPORT

(Item 5 of the Agenda) (Oral)

- Decisions at the Closed Council in December 2021

- President's activities since December 2021

- Extraordinary Closed Session on 8 March dedicated to CERN's response to the Russian invasion of Ukraine

The Council took note of the President's report.

6. DIRECTOR-GENERAL'S REPORT

(Item 6 of the Agenda) (Oral)

- FCC Feasibility Study Steering Committee

- CERN and COVID-19
- Protocol visits since January 2022
- Signing of the agreement granting Brazil the status of Associate Member State
- Progress of the Science Gateway project

The Council took note of the Director-General's report.

7. DEVELOPMENTS IN THE MEMBER AND ASSOCIATE MEMBER STATES RELEVANT FOR CERN

(Item 7 of the Agenda) (Oral)

The Council took note of the information provided by the French, Hungarian, Italian, Spanish and United Kingdom delegations, and of the statements by the representatives of Estonia, Latvia, Lithuania and Ukraine.

8. SCIENTIFIC POLICY COMMITTEE

(Item 8 of the Agenda) (Oral)

a) Report by the Chair of the Scientific Policy Committee

(Oral)

The Council took note of the oral report by the Chair of the Scientific Policy Committee, Professor Rivkin, on the matters discussed at the Committee's meeting on 21 and 22 March 2022 that were not covered elsewhere on the agenda.

b) Questions to the Scientific Policy Committee

(Oral)

No new questions were raised.

9. REPORT BY THE CHAIR OF THE FINANCE COMMITTEE

(Item 9 of the Agenda) (Oral)

The Council took note of the oral report by the Chair of the Finance Committee, Dr Dosselli, on the matters discussed at the Committee's meeting on 23 March 2022 that were not covered elsewhere on the agenda.

10. AUDIT COMMITTEE (AC)

(Item 10 of the Agenda)

a) Key messages from the AC meeting held on 1 March 2022

(CERN/3627/RA)

The Council took note of the information set out in document CERN/3627/RA and of the presentation by Dr Dosselli, in his capacity as Audit Committee Chair, of the key messages that the Committee wished to convey to the Council from its meeting on 1 March 2022, including its answers to the Council's questions on the financial governance of experiments hosted at CERN and the Member States' liability with respect to the investment risk of the Pension Fund.

b) AC – Annual activity report 2021

(CERN/FC/6550/RA-CERN/3623/RA)

The Council took note of the information set out in document CERN/FC/6550/RA-CERN/3623/RA.

c) Questions to the AC

(Oral)

No new questions were raised.

11. CERN ANNUAL PROGRESS REPORT 2021

(Item 11 of the Agenda) (CERN/SPC/1174/RA-CERN/FC/6551/RA-CERN/3624/RA)

The Council took note of document CERN/SPC/1174/RA-CERN/FC/6551/RA-CERN/3624/RA, of the presentation by the Director for Finance and Human Resources, Mr Bello, noting that CERN's activities had continued to be impacted by the coronavirus pandemic but that, nevertheless, an impressive number of scientific, technical, strategic and institutional objectives had been achieved, as detailed in the document.

The Council further took note of the reports by Professor Rivkin and Dr Dosselli on the related discussions at the March meetings of the Scientific Policy Committee and the Finance Committee, respectively, and of the comments made by delegations during the discussion.

12. CERN PENSION FUND

(Item 12 of the Agenda)

a) Report by the Chair of the Pension Fund Governing Board

(Oral)

The Council took note of the oral report by Mr Malmberg, in his capacity as Chair of the Pension Fund Governing Board, on the latest developments with respect to the Pension Fund, including the Fund's investment performance figures as at 28 February 2022, namely a year-to-date performance of -2.65%, a one-year performance of +3.56% and a five-year annualised performance of +5.46%, and of the report by the Finance Committee Chair, Dr Dosselli, on the Committee's discussion of Pension Fund matters at its March meeting.

13. PROCUREMENT STRATEGY FOR THE DUNE/LBNF CRYOSTATS AND REQUEST FOR AUTHORISATION TO DEROGATE FROM THE STANDARD CERN PROCUREMENT RULES FOR A PROJECT EXECUTED OUTSIDE THE CERN MEMBER STATES

(Item 13 of the agenda) (CERN/FC/6554/RA-CERN/3631/RA)

The Council took note of document CERN/FC/6554/RA-CERN/3631/RA, of the presentation by the Director for Finance and Human Resources, Mr Bello, of the report by the Finance Committee Chair, Dr Dosselli, and of the additional information provided in response to questions and, on the recommendation of the Finance Committee, unanimously decided to approve the proposal set out in the document to derogate from the standard CERN procurement rules, as set out in sections 4.1 to 4.8, in the context of the Organization's participation in the DUNE/LBNF project in the United States.

14. REPORT ON NON-LHC EXPERIMENTS

(Item 14 of the Agenda) (Oral)

The Council took note of the presentation by the Director for Research and Computing, Professor Mnich, covering the impact of the Russian invasion of Ukraine on the NA64, COMPASS and NA61/SHINE experiments and the activities in progress at the CERN Neutrino Platform and in the context of the Quantum Technology Initiative.

15. HL-LHC MATTERS

(Item 15 of the Agenda)

a) Report on the HL-LHC project

(Oral)

The Council took note of the presentation by the Director for Accelerators and Technology, Dr Lamont, on the status of the High-Luminosity LHC (HL-LHC) project, relating the good progress being made across the various work packages, the important upcoming procurement activities and the alternative measures implemented and plans being elaborated with respect to the components and systems originally due to be supplied by the Russian Federation.

b) Status report on the Phase II detector upgrades

(Oral)

The Council took note of the presentation by the Director for Research and Computing, Professor Mnich, on the revised HL-LHC schedule, the progress of the Phase II detector upgrades of ATLAS and CMS and the risks to those upgrades associated with the war in Ukraine, and of the request for a presentation at a future Council Session of the lessons learned from the Phase I detector upgrades.

16. LHC MATTERS

(Item 16 of the Agenda)

a) Status of the accelerator complex

(Oral)

The Council took note of the presentation by the Director for Accelerators and Technology, Dr Lamont, on the status of the accelerator complex, underlining the excellent work performed by all teams during the 2021-2022 year-end technical stop, and detailing the good progress achieved with the commissioning of the injectors and the LHC itself as well as the schedule for the restart of physics operation across the whole complex, with stable beams in the LHC planned for 15 June.

b) Status Report on the LHC Experiments and Computing

(Oral)

The Council took note of the presentation by the Director for Research and Computing, Professor Mnich, on the latest LHC physics highlights, the progress of the experiments' Phase I upgrades and preparations for Run 3, the status of readiness of the Worldwide LHC Computing Grid (WLCG) for Run 3, and the risks to the operation of the LHC experiments and the WLCG associated with the Russian invasion of Ukraine.

The Council further took note of the oral reports by the Chair of the Scientific Policy Committee, Professor Rivkin, and the Chair of the Finance Committee, Dr Dosselli, on the committees' discussions of LHC matters at their meetings earlier in the week.

The Council voiced appreciation and congratulations to the Management for having brought the entire accelerator complex, the experiments and the computing grid successfully through the second long shutdown and the coronavirus pandemic to the present excellent state of readiness for Run 3.

17. ROADMAPS

(Item 17 of the Agenda)

- a) Roadmap for accelerator R&D implementation plan
(CERN/SPC/1176/RA-CERN/3629/RA)
- b) Roadmap for detector R&D implementation plan
(CERN/SPC/1177/RA-CERN/3630/RA)

The Council took note of the proposed implementation plans for the accelerator and detector R&D roadmaps, as set out in documents CERN/SPC/1176/RA-CERN/3629/RA and CERN/SPC/1177/RA-CERN/3630/RA respectively, of the presentations by the Chair of the Large Particle Physics Laboratory Directors Group, Professor Newbold, and by the Chair of the European Committee for Particle Accelerators, Professor Jakobs, of the report by the Chair of the Scientific Policy Committee, Professor Rivkin, and of the feedback given by delegations during the discussion, notably regarding the need to initiate discussions with the funding agencies at the earliest opportunity to identify the funding streams that might become available for accelerator and detector R&D in the coming years.

The Council thanked both teams for the considerable work that had gone into the elaboration of the roadmaps and implementation plans and agreed that the implementation plans should be submitted for approval at the June Session.

18. CERN'S INVOLVEMENT IN THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS (SDGS) AND COLLABORATION WITH MEMBER AND ASSOCIATE MEMBER STATES

(Item 18 of the Agenda) (Oral)

The Council took note of the presentation by the Director for International Relations, Ms Warakaulle, recalling the United Nations Sustainable Development Goals and describing the principles and strategy for implementing CERN's activities in support of those Goals, details of the various initiatives under way in collaboration with Member and Associate Member States, the ideas for further projects being explored and the preparations for the 2022-2023 International Year of Basic Sciences for Sustainable Development.

19. CONFIRMATION OF THE ACCESS STATUS OF THE DOCUMENTS ON THE AGENDA

(Item 19 of the Agenda) (Oral)

The Council decided, by consensus, to confirm the access status of all the documents as shown on the Agenda.

20. OTHER BUSINESS

(Item 20 of the Agenda) (Oral)

- Observance of a minute's silence for the victims of the Russian invasion of Ukraine

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