



ALICE

07 November 2013

**Minutes of the 34th LHC Resource Review Board Meeting
(CERN, Geneva, 17th April 2013)**

Present:

M. Sumbera (Nuclear Physics Institute ASCR, Czech Republic)
 N. Fejksová (Ministry of Education, Youth and Sports, Czech Republic)
 J. Aysto (Helsinki Institute of Physics, University of Helsinki, Finland)
 D. Guillemaud Mueller (CNRS/IN2P3, France)
 H. Goutte (CEA/IRFU, France) (representing P. Chomaz)
 D. Vilanova (CEA/IRFU, France)
 H. Prasse (Federal Ministry of Education and Research, Germany)
 H. Mahlke (BMBF, Germany)
 G. Vesztegombi (Wigner RCP-RMKI, Hungary)
 T. Nayak (Variable Energy Cyclotron Centre, India)
 L. Cifarelli (Centro Fermi, Roma, Italy)
 R. Nania (INFN, Sezione di Bologna, Italy)
 E. Nappi (INFN, Sezione di Roma, Italy)
 M. Taiuti (INFN, Italy)
 D. Choi (Ministry of Education, Science and Technology, Korea)
 G. Nam (National Research Foundation, Korea)
 B. Lee (Sogang University, Korea)
 A. van Rijn (NIKHEF, The Netherlands)
 J. Nystrand (University of Bergen, Norway)
 J. Krolikowski (University of Warsaw, Poland)
 J. Bartke (HNIN, Polish Academy of Sciences, Poland)
 T. Siemarczuk (Soltan Institute for Nuclear Studies, Poland)
 F.D. Buzatu (Institute of Atomic Physics, Bucharest, Romania)
 M. Petrovici (IFIN-HH National Institute of Physics and Nuclear Engineering, Bucharest, Romania)
 M. Gheatta (ISS, Romania)
 A. Petrov (Permanent Mission of Russia in Geneva)
 V. Shevchenko (National Research Council, Kurchatov Institute, Russia)
 V. Savrin (Institute of Nuclear Physics, Moscow State University, Russia)
 A. Vodopyanov (JINR, Dubna, Russia)
 Z. Hlavacikova (Ministry of Education, Science, Research and Sports, Slovak Republic)
 L. Sandor (Institute of Experimental Physics, Kosice, Slovak Republic)
 D. Adams (Department of Science and Technology, South Africa)
 V. Spannenberg (iThemba Labs, South Africa)
 T. Dietel (University of Cape Town, South Africa)
 F. del Aguila (Ministry Economy and Competitiveness - U. Granada, Spain)
 P. Karlsson (Swedish Research Council, Sweden)
 G. Zinovjev (Bogolyubov Institute for Theoretical Physics, Ukraine)
 G. Blair (STFC, United Kingdom)
 A. Medland (STFC, United Kingdom)
 D. Evans (University of Birmingham, United Kingdom)

ALICE: P. Braun-Munzinger, P. Buncic, C. Decosse, P. Giubellino, J. Hadre, L. Musa, W. Riegler, Y. Schutz, P. vande Vyvre, J. Wessels

CERN: S. Bertolucci, P. Bloch, T. Lagrange, R. McLaren, J. Salicio Diez, E. Van Hove

Scrutiny Group: C. Touramanis, E. Iacopini, S. Schmeling

Excused: A. Maciel (RENAFAE, Brazil), P. Hansen (Niels Bohr Institute, Denmark), K. A.P. Sinha (Department of Atomic Energy, Mumbai, India), F. Linde (NIKHEF, The Netherlands), B. Jacobsen (The Research Council, Norway), E. Tsesmelis (CERN)

Documents can be found in the RRB indico pages; accessible via the LHC-RRB home page <http://cern.ch/committees/all/welcomeLHCRRB.html>

1. Introduction. S. Bertolucci, Director of Research and Scientific Computing

S. Bertolucci welcomed delegates to the meeting.

2. Approval of the minutes of the last meeting. S. Bertolucci, Director of Research and Scientific Computing

CERN-RRB-2013-002 (report)

The minutes of the last ALICE RRB were approved without comment.

3. Status of the experiment. P. Giubellino, Spokesperson

CERN-RRB-2013-029 (report), CERN-RRB-2013-030 (presentation)

P. Giubellino began with an overview of the last six months and strategies for the future. He continued with news from the collaboration including new institutes and candidates followed by details of the new Physics Board and organisation. The spokesperson then gave a detailed presentation of the goals of the 2012/13 run. He then presented the ALICE plan for LS1 and news about the Upgrades.

He summarised that:

- ALICE continues to harvest the results of the HI, pA and pp runs
- The Detector continues to provide excellent performance, and ALICE as a whole confirms its readiness and commitment
- A very busy Shutdown has started!
- The Upgrade plans are defined, and R&D progresses rapidly => next target the TDRs

The Spokesperson concluded by expressing his gratitude to the Funding Agencies for their continued support.

A. Medland congratulated ALICE on their achievements and the progress on plans for the Upgrade. He recognised the efforts to achieve a balance between science and resource and to manage the costs. He stated that it would become increasingly difficult for the UK to maintain the level of funding for M&O and computing as well as the investment in upgrades. In order to tension these commitments, there was a need to understand priorities in terms of the overall schedule and scope. ALICE should identify and develop priorities for ensuring a coherent scientific and technical plan and define how this could be adapted to fit future funding availability

P. Giubellino replied that the collaboration was fully aware of the tensions on the funding. ALICE has made a specific effort to contain the Upgrade plan in a bare minimum to address the core of the new physics. Efforts are being made to contain M&O costs which are decreasing. We have already looked at priorities and some very painful choices have been made. We are aware of the limited resources and the cost of the ALICE Upgrade is modest; further reductions would result in a loss of physics. He emphasised that it was important that full collaboration makes a contribution.

A. Medland would like to see a global picture of the Upgrade plans with main priorities. P. Giubellino replied that TDRs will define the main projects and commitments. This will be discussed during the next RRB.

J. Bartke asked why it was necessary to change the readout of the TPC. P. Giubellino replied that current readout for ions was limited to 500 events/sec. An improved system would allow to readout at least 50 KHz.

H. Goutte supported what had been discussed concerning the Global Upgrade.

E. Nappi announced that INFN faces difficult times and is under considerable pressure. INFN fully supports the ALICE Upgrade but is concerned that the efforts are not centrally co-ordinated.

S. Bertolucci proposed, at the next RRB, to present the Global of the Upgrades. However, he warned that the presentation would have different level of maturity across the experiments. For ALICE and LHCb there is only one Phase. He advised against introducing delays into the planning for the ALICE Upgrades and was of the opinion that delays would be very inefficient in terms of physics and money.

J. Aysto asked if R&D was included in the funding scenarios. P. Giubellino confirmed that costing of R&D was traditionally not included in the Core cost. It is very difficult to integrate this as the components (manpower, travel, construction, etc.) were different for each Funding Agency. He estimate R&D costs to be in the order of 15% of the total and reminded delegates that this was the one and only Upgrade for ALICE.

4. LHCC Deliberations (paper only). S. Bertolucci, Director of Research and Scientific Computing (replacing E. Tsismelis, LHCC Scientific Secretary).
CERN-RRB-2013-033

The LHCC considers that ALICE has made excellent progress, despite some operational issues, and the Committee congratulates the ALICE Collaboration on its achievements.

5. Financial matters. T. Lagrange, Head of CERN Finance and Procurement Department CERN-RRB-2013-034 (report), CERN-RRB-2012-051 (presentation).

T. Lagrange presented the updates to the Financial Report.

For the contributions to the Construction Common Fund, Commissioning & Integration he reported that the outstanding contributions from India, Korea and Poland totalled 237 kCHF.

A number of additional contributions have been received for M&O-A totalling 1.14 MCHF. This leaves outstanding contributions for M&O-A for the year 2012 at 1.71 MCHF for member states and 1.71 MCHF for non-member states.

There were no questions arising from this presentation.

6. Construction Budgets. C. Decosse, ALICE Resource Coordinator CERN-RRB-2013-035 (report). Slides of this presentation are on the RRB Agenda page.

C. Decosse reported that 2012 CORE expenses were 995 kCHF and gave details of the cumulative expenditure from 1997-2012 for each Funding Agency and for each system. She then presented the status of the Common Fund and the cash flow from 1998 until 2012.

There were no questions arising from this presentation.

7. M&O Budgets. C. Decosse, ALICE Resource Coordinator
CERN-RRB-2013-31 (report). CERN-RRB-2013-032 (presentation).

C. Decosse presented the details of Maintenance and Operation:

- Category A
 - 2012 M&O-A contributions and expenditure
 - 2013 Current contributions and expenditure
 - M&O-A 2014 preliminary budget and sharing and estimates for the period 2015-2017
- Category B
 - 2012 M&O-A contributions and expenditure
 - M&O-B 2014 preliminary budget and sharing and estimates for the period 2015-2017

She then presented, for information, the cost of R&D for upgrade expenditures 2010-2012 and for further R&D.

Finally, C. Decosse gave details of the Common Projects cost estimate with a table outlining a possible sharing scenario for the Common Fund for upgrade

T. Lagrange announced the recent payment of 727 kCHF from INFN.

8. Summary, S. Bertolucci, Director of Research and Scientific Computing

There being no further business, the chairman closed the meeting. The next meeting of the RRB will take place on the 28-30th October 2013.