



LHCb

3rd March 2009

Minutes of the 21st LHC Resource Review Board Meeting (CERN, Geneva, 11th November 2008)

Present:

Y. Zhang (National Natural Science Foundation of China, China)
P. Ji (National Natural Science Foundation of China, China)
L. Zou (National Natural Science Foundation of China, China)
E. Augé (CNRS/IN2P3, France)
K. Ehret (DESY, Germany)
F. Ferroni (INFN, Italy)
P. Campana (INFN, Italy)
A. Van Rijn (Nikhef, Netherlands)
J. Krolikowski (University of Warsaw, Poland)
G. Polok (Henryk Niewodniczanski Institute of Nuclear Physics, Poland)
F. Buzatu (Institute of Atomic Physics, Romania)
V. Savrin (SINP MSU, Russia)
L. Garrido Betran (University of Barcelona, Spain)
T. Nakada (CHIPP EB member, Switzerland)
J. Seed (STFC, United Kingdom)
F. Muheim (University of Edinburgh, United Kingdom)
M. Pripstein (National Science Foundation, United States Of America)

G. Lafferty (University of Manchester, Scrutiny Group Chair)
C. Diaconu (CPM/DESY, Scrutiny Group)

CERN

J. Engelen, E. Tsesmelis, R. McLaren, J-J. Blaising, J. Salicio-Diez, S. Schmelling, E. Van Hove.

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A. Golutvin, O. Ullaland, W. Witzeling, R. Forty, M. Pepe-Altarelli, A. Schopper, V. Egorychev, E. Aslanides

Apologies

P. Schroth /Germany BMBF
U. Dosselli (INFN, Italy)
Y. Kozlov (Russian Federal Agency for Science and Innovation, Russia)
N.V. Zamfir (Institute of Atomic Physics, Romania)
J. Fuster (University of Valencia CSIC, Spain)

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

1. Welcome. J. Engelen, Chief Scientific Officer

J. Engelen welcomed delegates to the 21st meeting of the RRB. He introduced T. Lagrange who replaced P. Geeraert as head of CERN's Finance department.

2. Approval of the minutes of the last meeting. J. Engelen, Chief Scientific Officer
CERN-RRB-2008-061 (report)

The minutes of the last RRB were approved without comment.

3. Status of the experiment. A. Golutvin, Spokesperson
CERN-RRB-2008-088 (report) CERN-RRB-2008-089 (presentation)

A. Golutvin began by stating that the LHCb was ready for data taking in September 2008. He reported on the status of the beam pipe, the magnet, the VERTex LOcator, the Outer Tracker, the Silicon Tracker, the RICH, the Calorimeters and the Muon Detector. He continued with a report on the Trigger, the Online system and Computing.

M. Pripstein asked if quality control tests could have detected the problems with HPDs. A. Golutvin replied that these problems developed with time.

He then presented the activity in the experimental area for installation and commissioning before looking at the main objectives of the physics.

Moving on to cost and funding issues, he reported that there had been no change since last RRB in April 2008 and that the production of VELO replacement modules has been launched in May.

Turning to collaboration matters, A. Golutvin presented the LHCb organization:

Spokesperson:	A. Golutvin
Deputy:	A. Schopper
Technical Coordinator:	W. Witzeling (reappointed for the next 3 years)
Resource Coordinator:	O. Ullaland

CB Chair:	U. Straumann (Many thanks to E. Aslanides)
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Operations Planning Group	O. Callot (Chair)
Physics planning Group	T. Nakada (Chair)

A. Golutvin welcomed a new group from the University of Bari, led by Prof. A. Palano, to the collaboration. He also presented the organisation of the Physics groups.

In conclusion, A. Golutvin stated that:

A clear experimental signature of New Physics unlikely to be discovered at currently operating experiments
 LHCb has many opportunities to discover NP in flavour sector within a few years of data taking (10 fb⁻¹ sample); complementary to direct search by ATLAS & CMS
 LHCb is preparing the upgrade to collect 100fb⁻¹ which is very important to study NP models

LHCb was fully operational to start data taking in September 2008.
First LHC beam induced data have been successfully taken and used
for the time and space alignment

It is now essential to prepare for the effective start-up next year:

- Complete M1 installation and commissioning
- Upgrade DAQ system to its full capacity
- A few improvements for sub-detectors

E. Augé asked if the concerns with computing at Tier 1 was a general problem. A. Golutoin replied affirmatively. LHCb aims to reduce dependencies by replication.

4. LHCC deliberations (paper only). E. Tsesmelis, LHCC Scientific Secretary.
CERN-RRB-2008-090 (report)

Delegates had no comments and the RRB took note of the LHCC report.

5. Financial matters. T. Lagrange, Head, CERN Finance Dept.
CERN-RRB-2008-070 (paper)

T. Lagrange reported that there were no changes since the report of 31st August 2008.

6. Budgets. O. Ullaland, Resources Coordinator.
CERN-RRB-2008-091 (report), CERN-RRB-2008-093 (report) CERN-RRB-2008-092
(presentation)

a. 2008 Construction Budget.

O. Ullaland reported that most of the core spending came to an end in 2006, only the purchasing for DAQ and data storage remained and no additional requests for funds were presented to the RRB.

b. M&O budgets.

He showed the M&O A status for 2008 and the proposed evolution from 2008 until 2012.

O. Ullaland highlighted the changes from 2008: 100 kCHF had been allocated for Core Computing (the funds will be used to support a Data Manager stationed at CERN). Outreach had been increased from 20 to 65 kCHF. He proposed that the positive balance from 2007, 226 kCHF, would be kept as a buffer in M&O A (This is in agreement with CERN-RRB-2006-026).

O. Ullaland showed a detailed breakdown by system of the Category B M&O for 2008 and stated that only small adjustments, if any, are anticipated for 2009

c. M&O Scrutiny Group report, G. Lafferty, SG Chairperson.
CERN-RRB-2008-087 (report)

G. Lafferty reported that the SG had checked each of the categories and sub-categories and they were in line with the sum requested and with previous experience.

He warned that cooling and gas costs are rising and these must be carefully monitored; they would become clearer with operational experience.

The Scrutiny Group had reviewed and approved the request for 2 FTEs for core computing, and some extra spending for outreach. Lastly G. Lafferty commended LHCb for the move of a large number of electronics items from M&O A to B.

To conclude, G. Lafferty reported that M&O Category A&B had been scrutinized and recommended the figures for approval by the RRB.

There were no questions or discussion and the RRB approved the budgets for 2008 construction and 2009 M&O.

7. M&O Scrutiny Group in 2009. J. Engelen, Chief Scientific Officer.

As announced in the plenary session, there will be changes to the Scrutiny Group. G. Lafferty, J. Mnich and J. Kirkby will be leaving the group, requiring new delegates from the UK, Germany and CERN, and a new Chairperson will be appointed. M. Turala will join the Scrutiny Group and J. Engelen proposed B. Loehr as a candidate. The RRB delegates will receive further information.

8. Summary. J. Engelen, Chief Scientific Officer.

J. Engelen summarised that the LHCb status report was convincing, demonstrating that LHCb had delivered a working experiment. The shutdown period will be used to complete and refurbish detectors. He also concluded that LHCb was financially sound.

There being no further business, the chairman thanked the participants and closed the meeting.