



TOTEM

01 March 2012

**Minutes of the 9th LHC Resource Review Board Meeting
(CERN, Geneva, 18th October 2011)**

Present:

O. Novak (Ministry of Education, Youth and Sports, Prague, Czech Republic)
J. Ridky (Institute of Physics, Prague, Czech Republic)
D.-O. Riska (Helsinki Institute of Physics, University of Helsinki, Finland)
F. Cervelli (INFN, Italy)

CERN

S. Bertolucci, J. de Groot, T. Lagrange, R. McLaren, J. Salicio Diez, E. Tsesmelis, E. Van Hove.

TOTEM

S. Giani, J. Baechler, K. Eggert, A. Scribano

Scrutiny Group

S. Schmeling, B. Loehr

Excused

P. Bloch

T. Csorgo (KFKI, Budapest, Hungary)

R. Heuer

S. Lettow

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

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

S. Bertolucci welcomed delegates to the meeting of the TOTEM LHC Resource Review Board.

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

The minutes of the last RRB CERN-RRB-2011-065 were approved with no comments.

3. Status of the experiment. K. Eggert, Spokesperson
CERN-RRB-2011-113 (slides)

K. Eggert presented the status as:

- All inelastic detectors are ready for data taking and can provide triggers
- 220 m Roman Pot Silicon detectors are fully operational
- 147 m Roman Pot detectors are fully installed and tested
- Alignment of the 147 m RP is under way

He reported on the runs, and results, from October 2010 - October 2011 and listed the perspectives for the next year.

The concluded by expressing the collaboration's thanks to:

- CMS for installation help and constant advice
- The LHC crew for their patience
- The CERN management for still believing in us and for continuing to do so
- The funding agencies for making TOTEM possible and for their future support

Finally K. Eggert announced that he would be stepping down and would be replaced as Spokesperson by S. Giani.

S. Bertolucci thanked K. Eggert for his excellent leadership of Totem and invited the delegates to join him in a round of applause.

B. Loehr asked about the time needed to measure rare diffractive events. K. Eggert replied that this would be possible with higher luminosity. However, his real aim was to look for unforeseen effects but this would require low pile-up.

4. LHCC Deliberations (paper only). E. Tsesmelis, LHCC Scientific Secretary.
CERN-RRB-2011-095

On behalf of the LHCC, E. Tsesmelis congratulated TOTEM for their successful physics runs and for the first measurement of the total cross-section. In addition, the LHCC endorsed the special runs at 90m.

5. Financial matters. T. Lagrange, Head, CERN Finance Dept.
CERN-RRB-2011-072 (report), CERN-RRB-2011-099 (presentation)

T. Lagrange reported that M&O-A outstanding contributions now stood at 27 kCHF for the Member States and 22 kCHF for the non Member States.

There were no questions or comments arising from this presentation.

6. Construction and M&O Budgets. S. Giani, Resource Coordinator.
CERN-RRB-2011-112 (presentation)

S. Giani presented the M&O Cat.A and Cat.B contributions by funding agency and gave a summary of expenditures and the balance for both categories. He summarized the status as:

- TOTEM figures are consistent with the data presented by FI Dpt. within 1kCHF precision.
- Evolution of expenditures after August carefully traced.
- Projections to the end of the year indicate likely overspending due to excess of manpower cost for T1 firmware (1st year of T1 operation).
- Reimbursement for such extra-cost under negotiation.

Turning to the M&O budget request of 440 kCHF (the same amount as 2011), S. Giani listed the principle cost drivers. He proposed to maintain constant Cat.B contributions of 247 kCHF, as foreseen in the projections.

He then listed the contribution of each Funding Agency for both categories.

S. Giani concluded that:

- TOTEM has measured and published in 2011 the pp elastic differential cross-section, as well as the pp elastic, inelastic and total cross-section (with 3% precision) at 7 TeV.
- TOTEM is grateful to the relevant LHC teams and to the CMS collaboration for their continuous support.
- TOTEM is grateful to the RRB, Funding Agencies and Scrutiny Group, which helped the collaboration to produce these physics results, and is looking forward to their reiterated support to continue its physics programme at the LHC (including single diffraction, double pomeron exchange, rho-measurement, luminosity-independent σ_{tot} , ...).

M&O Scrutiny Group Report. B. Loehr, Scrutiny Group Chairman
CERN-RRB-2011-076 (report)

B. Loehr congratulated TOTEM for their beautiful results. He stated that the Scrutiny Group would appreciate more formal approach concerning M&O-B.

F. Cervelli remarked that INFN was paying about 50% of the total amount of M&O-B; S. Giani confirmed that this had been the case for several years. He also explained that the percentages for M&O-A and M&O-B were different as they were calculated using different formulae.

D.-O. Riska announced that the Helsinki Institute of Physics would commit to pay the 2012 budget request. J. Ridky (Institute of Physics, Prague) also gave their commitment.

The RRB approved the proposal

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

S. Bertolucci reiterated his congratulations and wished the collaboration success in the future. There being no further business, he thanked the delegates and closed the meeting. The proposed dates for the next RRB are 23rd – 25th April.