



TOTEM

13 August 2012

**Minutes of the 10<sup>th</sup> LHC Resource Review Board Meeting  
(CERN, Geneva, 24 April 2012)**

**Present:**

N. Tarabová (Ministry of Education, Youth and Sports, Prague, Czech Republic)  
J. Aysto (Helsinki Institute of Physics, University of Helsinki, Finland)  
T. Csorgó (Wigner RCP, RMKI, Budapest, Hungary)  
A. Zoccoli (INFN, Sezione di Roma, Italy)

## TOTEM

S. Giani, J. Baechler, K. Eggert, S. Lami, E. Radicioni

## CERN

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

## Scrutiny Group

S. Schmeling, B. Loehr

## Excused

S. Foffano  
R. Heuer  
S. Lettow  
E. Tsesmelis

Documents can be found in the RRB indicio 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 and congratulated the experiment on the physics results.

**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-2012-005 were approved with no comments.

**3. Status of the TOTEM experiment.** S. Giani, Spokesperson.  
CERN-RRB-2012-044(slides).

S. Giani's presentation focussed on five main areas:

- Detectors & Trigger
- Runs & Data-taking
- Physics (1) :  $dN/d\eta$
- Physics (2) : Total Cross-Section
- Luminosity

S. Giani concluded by stating that the TOTEM experiment was grateful to CMS for the collaboration on the luminosity and the trigger for realizing joint runs. The TOTEM collaboration was also grateful to the accelerator groups for the development of the dedicated optics and for the system operations.

*T. Csorgo congratulated TOTEM on their  $dN/d\eta$  measurements and having been included in the EPL's Best of 2011 collection for the  $\sigma_{TOT}$  results.*

**4. LHCC Deliberations (paper only).** S. Bertolucci, Director of Research and Scientific Computing (reporting on behalf of E. Tsesmelis, LHCC Scientific Secretary).  
CERN-RRB-2012-039

The LHCC congratulates TOTEM for their successful physics runs and for the experiment's physics results.

*There were no questions or comments arising from this presentation.*

**5. Financial matters.** T. Lagrange, Head, CERN Finance Dept.  
CERN-RRB-2012-020 (report), CERN-RRB-2012-021 (presentation)

T. Lagrange presented the updates to the Financial Report.

For the M&O, the additional Contributions that had been received as of 1 March 2012 amounted to 22 kCHF. For member states, outstanding M&O contributions stood at 27 kCHF for the past and 198 kCHF for 2012. For non-member states, outstanding contributions totalled 26 kCHF for 2012.

*There were no questions or comments arising from this presentation.*

**6. Construction and M&O Budgets.** S. Giani, Spokesperson.  
CERN-RRB-2012-058 (presentation).

S. Giani presented the Cat. A and Cat. B contributions by Funding Agencies and the Expenditures and Balance book on 31 Dec 2011.

Turning to the M&O Cat A. status for 2012, the Resource Coordinator reported on the status, by Funding Agency, of the contributions and noted that :

- TOTEM figures are consistent with the data presented by FI Dpt. within 1kCHF precision.

- CERN, Finland, Estonia, Prague, Hungary already paid the 2012 contributions.
- INFN is transferring the money
- UC CWRU is committed to pay as from July onwards

And that for M&O Cat.B status 2012

- Funding is proceeding normally at the TOTEM collaborating institutes

Looking ahead to 2013, he presented a preliminary TOTEM M&O budget request of 409 kCHF. He noted that the M&O budget request was less than 2012 and that it respected the table of projections done with the SG for the years of LHC LS1.

S. Giani added that the table of projections would be updated with the SG to reflect the CERN strategy of LHC running and long shutdowns during 2013 and 2014.

He proposed to maintain Cat.B contributions constant at 247k CHF as foreseen in the projections.

S. Giani concluded that:

- TOTEM was grateful to the funding agencies for their financial contributions, to CMS for the fruitful collaboration on detectors and physics, and to the accelerator groups for their continued support
- TOTEM was fully operational and is expecting to take physics runs standalone as well as jointly with CMS at standard and special  $\beta^*$  optics
- TOTEM was looking forward to iterating with the Scrutiny Group on the required reviews in order to finalize the 2013 M&O budget request.

*J. Aysto confirmed that the Finish contribution for 2013 would be similar to 2012.*

*Remarking that the LHC would not run in 2013, A. Zoccoli asked why next year's budget was similar to 2012. S. Giani replied that some costs increase, e.g. the electronics pool, and some decrease. In addition, even during shutdowns, fixed maintenance contracts for detectors continue.*

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

S. Bertolucci reiterated his congratulations for TOTEM's remarkable measurements.