E. Elsen, Director for Research and Computing welcomed delegates to the meeting. The minutes of the last TOTEM RRB meeting, CERN-RRB-2018-135, were approved.

**Status of the experiment.** S. Giani, Spokesperson

*Summary:*

The results that were presented at the previous RRB were published:

- The paper from December 2017 (“First measurement of elastic, inelastic and total cross-section at $\sqrt{s} = 13$ TeV by TOTEM and overview of cross-section data at LHC energies”) was updated with the measurements of the total and inelastic cross-sections also from other experiments and has been accepted for publication by EPJC;
- The paper “First determination of the $\rho$ parameter at $\sqrt{s} = 13$ TeV – probing the existence of a colourless three-gluon bound state” from January 2018 was updated by including the QED normalization for measuring the total cross-section. It is expected to be published soon.

Two new papers since the last RRB:

- “The elastic differential cross-section measurement at $\sqrt{s} = 13$ TeV by TOTEM” has been issued as a CERN preprint;
- “Elastic differential cross-section $d\sigma/dt$ at $\sqrt{s} = 2.76$ TeV and implications on the existence of a colourless 3-gluon bound state” has been issued as a CERN preprint.

*Summary of the discussion following the presentation:*

Complimenting TOTEM on their discoveries, T. Csorgo remarked that the odderon discovery could be characterized by additional low energy measurements, if this was compatible with the LHC running program.

**LHCC Deliberations** F. Simon, LHCC Chairperson designate, on behalf of T. Wengler, LHCC Scientific Secretary

*There were no questions arising from this presentation.*

**Financial Matters.** G. Cavallo, Finance and Administrative Processes Department

G. Cavallo presented the financial situation as of 16 April, the report covering the situation from 31 December 2018.

*There were no questions arising from this presentation.*
**Budgets.** S. Giani, Spokesperson

**Summary:**
- TOTEM will review with the Scrutiny Group the refinements required in the projections for 2020.
- TOTEM is grateful to the RRB, LHCC, Funding Agencies, Scrutiny Group, and CERN Management, which helped the collaboration for the production of its 13 TeV and 2.76 TeV physics results, and is looking forward to their support during LS2 in order to complete the physics program during LHC Run 3.
- TOTEM is also grateful to CMS for the fruitful collaboration on the PPS system fully integrated in CMS and to the LHC groups for their continued successful developments and feedback exchange on the accelerator optics.
- TOTEM is looking forward to iterating with the Scrutiny Group on the required reviews in order to finalize the 2020 M&O budget request.

**Summary of the discussion following the presentation:**
E. Elsen mentioned that it is uncertain when the 14 TeV run will start, due to the optimization of LHC schedule including the magnet training.

S. Giani confirmed to A. Zoccoli that the 2020 budget request will be finalized once the 2019 expenses are known. The future requests have been discussed with the Scrutiny Group; it will increase for 2021 because the experiment will go back to running but will be less than during Run 2. Provided the current manpower level can be maintained, this should be sufficient.

**Summary.** E. Elsen, Director for Research and Scientific Computing

There being no further business, E. Elsen thanked the Funding Agencies and closed the meeting. The proposed dates for the next RRB are 28-30 October 2019.

Reported by: E. van Herwijnen
Present:

O. Novák (Ministry of Education, Youth and Sports, Prague, Czech Republic)
A. Kupčo (Institute of Physics AS CR, Czech Republic)
K. Huitu, K. Osterberg (Helsinki Institute of Physics, Finland)
T. Csorgo (Hungary)
A. Zoccoli (INFN, Italy)
L. Grzanka (AGH University of Science and Technology, Poland)

TOTEM
S. Giani, E. Radicioni

CERN
G. Cavallo, E. Elsen (Chairperson), M. Krammer, H. Meinhard, E. van Herwijnen (Scientific Secretary)

Scrutiny Group: F. Simon, P. Lubrano

Excused: F. Gianotti, M. Steinacher and T. Wengler (CERN), N. Pastrone (INFN, Italy), M. Malawski (AGH, Poland).