

# First thoughts on the interaction of the experiment with the Cabibbo lab: the CERN example

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# Interactions between Spokesperson(s) & CERN Committee & CERN Directorate

- The spokesperson (or his/her delegate(s)) of a CERN experiment presents a regular Status Report on the experiment at the relevant **scientific** Committee (**LHCC/INTC/SPSC**) and **financial** Committee (e.g. for LHC)
  - **LHCC**
  - **LHC-RRB**
- Meetings between the spokesperson/deputy and the CERN management (mainly with DG & RD) are planned on a regular basis:
  - Presently about once/month and in correspondence of some major events (preparation for big Conferences, Council meetings, seminars/ publication of major physics results, etc)
  - Before ATLAS/CMS (technical proposal) approval the spokesperson met more frequently with the Director of research for advices/status report on the various aspects of the proto-collaboration

# CERN Scientific Committees

- **Scientific Policy Advice to CERN Council**
  - **SPC** - Scientific Policy Committee
- **Approval of Experiments at CERN**
  - **RB** - Research Board
- **Experimental Committees**
  - **INTC** - ISOLDE-Neutron Time of flight experiments Committee (formerly ISC)
  - **LHCC** - **The Large Hadron Collider experiments Committee**
  - **SPSC** - The SPS and PS experiments Committee
- **Experiment Resources Review**
  - **LHC RRB** - **LHC Resources Review Boards**
  - **CAST FRC** - CAST Finance Review Committee
  - **COMPASS FRC** - COMPASS Finance Review Committee
  - **NA62** - Finance Review Committee

# LHC Experiments Committee

- **The LHCC was set up** after the March 1992 meeting in Evian-les-Bains, where **Expressions of Interest** were presented.
- Intensive interactions between the Committee and the Collaborations was required in order to converge on the detector designs, to review the construction, installation and commissioning of the experiments.
- **Like other experiment committees, the LHCC makes recommendations to the CERN Research Board (that is in charge to approve the CERN experiments and the accel program)**
  - Letters of Intent for the proton-proton collider LHC programme were submitted starting from October 1992. ATLAS and CMS submitted then Technical proposal in december 1994 and were approved by the CERN RB. CERN Council ratified the decision in Dec 1995.
- **The LHCC also reviews the LHC Computing Grid (LCG) Project.**
- **The LHCC is also responsible for reviewing the detector R&D projects**
  - Today reviews the LHC UPGRADE program
- **The Committee meets with the experiments 4 times in a year**

# LHC Resources Review Board

- **The Resources Review Board (RRB) comprises the representatives of each Experiment's Funding Agencies and the managements of CERN and of each Experiment's Collaboration. It is chaired by the CERN Director for Research and Computing.**
- **The role of the RRB includes :**
  - reaching agreement on the Memorandum of Understanding
  - monitoring the Common Projects and the use of the Common Funds
  - monitoring the general financial and manpower support
  - reaching agreement on a maintenance and operation procedure and monitoring its functioning
  - endorsing the annual construction and maintenance and operation budgets of the detector.
- **The management of the Collaboration reports regularly to the RRB on technical, managerial, financial and administrative matters, and on the composition of the Collaboration.**
- **The LHC RRB meets twice a year and was officially established in the MoUs**

# LHC experiment approval

- **After the approval, the DG wrote a letter to the ATLAS/CMS spokespersons containing a few relevant points regarding the relationship between the Lab&experiments**
  - **The detectors must be built inside cost ceilings.**
  - **Before proceeding to the final construction phase, each subsystem will be subject to a technical, financial, and manpower review by the LHCC based on the Technical Design Report.**
  - **Both collaborations must continue their current practice of consulting the CERN Directorate as part of the procedure for appointing spokesmen. The Technical and Financial Coordinators will be appointed in agreement with CERN and will be (or temporarily become, if exceptionally seconded from elsewhere) CERN Staff Members.**

# Backup slides on ATLAS MoU and CERN Organization

# Main parts of MoU CERN-ATLAS

- (a) A group of Institutes from CERN Member and non-Member States, and CERN, has agreed to collaborate to form the ATLAS Collaboration. These Institutes have secured the support of their Funding Agencies to enable them to participate in the ATLAS Collaboration.
- (b) On the basis of a Technical Proposal submitted in December 1994 (CERN / LHCC/ 94-43) and a detailed review of the scientific merits, the technological feasibility and estimates of the needed resources, **the LHC Committee (LHCC) recommended approval of the experiment to the CERN Research Board**, subject to a set of milestones to be met by LHC experiment in its initial phase (CERN / LHCC 95-76).
- (c) Based on the recommendation by the LHCC and in agreement with the list of milestones, **the Research Board recommended to the Director General of CERN to approve the project**, together with plans, including milestones, leading to the subsystem/detector Technical Design Reports.  
**The Director General accepted the Research Board recommendation and approved the project** to build the detector for the ATLAS experiment within a cost ceiling

# MoU-2

- (d) **Before proceeding to the final construction** phase each sub-detector/ system will be subjected to a technical, financial, and manpower **review by the LHCC based on the Technical Design Reports.**
- (g) A Resources Review Board (RRB) has been constituted which comprises the representatives of all ATLAS Funding Agencies and the managements CERN and the ATLAS Collaboration.** It is chaired by the CERN Director of Research.

The role of the RRB includes :

- reaching agreement on the Memorandum of Understanding
- monitoring the Common Projects and the use of the Common funds
- monitoring the general financial and manpower support
- reaching agreement on a maintenance and operation procedure and monitoring its functioning
- endorsing the annual construction and maintenance and operation budgets of the Collaboration

- (e) **The collaboration management reports regularly to the RRB** on technical, managerial, financial and administrative mailers, and on the composition of the Collaboration.

# Present CERN management

- Director-General :Rolf Heuer + 3 Directors
  - Director for Research and Computing
    - Sergio Bertolucci
  - Director for Accelerators and Technology
    - Stephen Myers
  - Director for Administration and General Infrastructure
    - Sigurd Lettow

# Organization

- CERN Convention
  - Governance Committee (Council)
  - Finance Committee (FB)
  - Scientific Committee (SPC)

# COUNCIL (Governance Committee)

- **Government representatives of twenty European States** meet regularly in the **CERN Council to address research in elementary particle physics and related subjects.** These meetings are conducted in accordance with **an international treaty, the CERN Convention.**
- The Convention bestows upon the Organization two missions, namely the operation of laboratories and the organisation and sponsoring of international co-operation in the field.
- The first mission relates to the governance of the CERN Laboratory in Geneva, which is also the seat of the Organization. This is the world's largest elementary particle physics laboratory and provides research infrastructure for around 8,000 scientific users from the Member States and other regions in the world.
- The CERN Laboratory stands astride the Swiss-French border close to Geneva and is one of the jewel's in Europe's crown, a demonstration of what can be achieved through European collaboration. The Council governs the CERN Geneva Laboratory by defining its strategic programmes, setting and following up its annual goals, approving its budget and appointing its Management; the Laboratory is led by the Director-General who in respect of the Laboratory under his direction is also the formal representative of the Organization.
- **In its role as governing body of CERN, the Council meets four times a year, bringing together around one table delegations from its twenty Member States, under the chairmanship of the President of Council and with the Director-General acting as secretary.**
- The second of the missions has been actively addressed since the adoption of the "European Strategy for Particle Physics" in July 2006. Dedicated "European Strategy Sessions" are held for this purpose. The main European Strategy Session takes place in September of each year, coinciding with the normal CERN Council Session, but shorter European Strategy Sessions can also be held at other times of the year, if so required.
- The bulk of the organisation and preparation for the European Strategy Sessions of Council is undertaken by a Secretariat led by the Scientific secretary who is also the acting secretary at these Council Sessions.

# Finance Committee

- **In accordance with the CERN Convention, the CERN Council set up a Finance Committee, comprising delegates representing the Governments of the twenty CERN Member States, as a subordinate body to advise it on the execution and co-ordination of the different programmes of the Organization.**
- **The Finance Committee meets five times a year, to address budgetary, procedural, personnel and commercial matters.**
- In accordance with the recently adopted new CERN Governance principles, the Finance Committee in June each year discusses and recommends the Council to approve of the Annual Accounts of the preceding year, as well as the Medium-Term Plan, which includes the Budget for the following year. In the second half of the year, the Finance Committee advises the Council on the cost-variation index and the scale of contributions.
- The implementation of new accounting standards and the consequent changes to the Budget presentation require a revision of the CERN Financial Rules, a task that is currently being executed under the supervision of the Finance Committee.
- For personnel issues, Finance Committee relies on the advice of TREF, the Tripartite Employment Conditions Forum, where the Staff Association, the Management and the Member States discuss proposals and measures relating to the Organization's social and employment conditions.
- The Finance Committee adjudicates procurement and service contracts. A Working Group is about to complete a "Review of Purchasing Policy and Procedures" with aim of producing rules and regulations that are practical and enforceable and that will benefit the Organization and all the Member States.

# SPC (Scientific Policy Committee)

- The SPC is one of two subsidiary bodies to the CERN Council established by the Convention. It was created by Council at its first meeting in 1954, and included some of the most distinguished European physicists at the time, four of its eight members being Nobel Laureates and another member awarded that distinction later in his career.
- **The task of the SPC is to generally advise Council on scientific matters related to the Organization, namely**
  - to make recommendations to the Council on the priorities of research programmes and the allocation of research effort both within the Laboratories of the Organization and extramurally;
  - to examine and make recommendations to the Council on the annual goals of the various scientific activities of the Organization;
  - to annually assess the achievements of the Organization with regard to the past year annual goals of the various scientific activities;
  - to advise the Council from the point of view of scientific policy on the management and staffing of the Organization, including the visitors programme and the nomination of senior staff;
  - to advise the Council on any other matters which affect the scientific activities of the Organization.
- Members of the SPC are appointed by Council on the proposal made by the SPC Chair. The proposed names should have the support of at least two-thirds of the members of the SPC. The appointments, for a period of three years, renewable once, are "ad personam", solely on the basis of scientific competence.
- The SPC generally holds four sessions per year, during Council weeks, plus one special session to examine the scientific plans of the Organization for the years ahead. Some of the work of the SPC is prepared by ad-hoc panels, created internally when the need so arises to debate specific issues.
- The SPC also advises the European Strategy Sessions of Council and the SPC Chair is a member of the Secretariat of those sessions.

# RB(Research Board)

- **Mandate: Approval of Experiments at CERN**
- The Research Board receives the recommendations from all the CERN Experimental Committees, and takes decisions on them. Once approved, the proposals become part of the CERN experimental program.
- The Research Board also decides on the accelerator schedules and requests for "Recognized Experiments" at CERN.
- **Chairman:** CERN Director-General