



The renewal of the Brazil-CERN International Cooperation Agreement (ICA)

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Situation in the early 2000s (1/2)



- LEP physics analysis was still going on actively at LAPE
- Several Brazilian HEP Institutes / Universities joining the LHC Programme
- All possible manpower and financial resources were sought at, making it clear that a change of scale in the Brazil-CERN cooperation form was most suited to secure the future
- An International Cooperation Agreement (ICAs) with CERN had been signed in 1990 (mainly for collaboration between theorists) but was not renewed at its expiration in 1995

Situation in the early 2000s (2/2)



- In June 2002, the Brazilian Minister of State for Science and Technology, H.E. Ronaldo Mota Sardenberg and CERN Director General, Luciano Maiani, met at CERN. They agreed
 - that Brazilian participation in CERN's Large Hadron Collider project should be strengthened and to study the possibility of Brazil joining CERN-led Grid computing infrastructure projects
 - *to establish a Working Group to examine ways of strengthening Brazil's links with CERN, and to prepare the way for a Brazilian request to CERN Council to become an Observer at the Council.*
- In 2004, discussing with the CERN DG, Robert Aymar and John Ellis (DG Adviser on Latin America matters), I was asked to take the responsibility of the CERN-Brazil relations in particular to look at a possible new ICA

Working out the ICA



- Through Bernard I contacted the Assessoria de Cooperação Internacional - ASCIN of CNPq (Maria Lucilene Araújo Barros Velo). Then I got the precious help of Ricardo Galvão (former President of CBPF)
- Under the initiative of ASCIN, the existing ICA template was substantially modified (improved) to accommodate the specific Brazil needs
- The whole exercise took ~2 years of long but fruitful negotiation (Diplomatic time is unpredictable!). I had also to become familiar with both the English and Portuguese juridical vocabularies: good exercise!
- Eventually the “Cooperation agreement between CERN and Brazil (CNPq)” was signed on September 9, 2006 at CERN by CNPq President, Erney Felício Plessmann Camargo, and CERN Director-General, Robert Aymar, in the presence of most Brazilian Institutions spokespersons
- It was a nice moment giving the opportunity to the present Brazilian scientists to introduce Prof. Camargo to their experiment, visiting their detector while describing their activities and sharing they concerns

2006 Cooperation agreement between CERN and Brazil (1/2)



ARTICLE 1 Purpose

The purpose of this Co-operation Agreement is to provide a framework to enable the Parties to continue and further develop their scientific and technical co-operation on a basis of reciprocity, through their participation in research projects and programmes of mutual interest. The Parties shall use the results of their co-operation for non-military purposes only.

- Officialises the participation of CNPq in major (ongoing and future) programs of CERN
- Provides well-defined protocols between CERN and CNPq and Institutes and Universities from Brazil describing objectives, programs and resources needs, intellectual property rights, etc.
- Defines Cooperation mechanisms:
 - Visits, exchanges of Brazilian and CERN scientists, exchanges of scientific information
 - Exchange of scientific equipment and material
 - Other agreed by the Parties

2006 Cooperation agreement between CERN and Brazil (2/2)



- Stipulates that CERN opens its facilities to Brazilian scientists and engineers for the realization of projects covered by the agreement. As such they will be entitled to:
 - attend all CERN schools (including Summer Students)
 - apply for associate positions

- Fixes the ICA duration to 5 years **automatically renewable unless denunciation by one Party**

Protocol on the Participation by Scientific Institutes and Universities in HEP Experiments



- Defines the "*Scientific Institutes and Universities from Brazil, with a view to the participation of Brazilian scientific and technical personnel in:*
 - ATLAS, CMS, LHCb, ALICE, ALPHA Collaborations
 - the LHC Computing Grid project
- Introduces Memorandum of Understanding (MoU) specifying the financial and in-kind resources for the Development, Maintenance and Operation of the LHC experiments and the LHC Grid
- Prescribes that CNPq shall provide to the collaborating Brazilian Scientific Institutes and Universities the funding required for their collaborations

Protocol on the Participation and Training of Students from Universities in HEP and related activities



- Provides a *“long-term operational framework for the training of students of Brazilian Universities and Scientific Institutions through their participation in the high-energy particle physics experiments at CERN, such as provided by the LHC Project”*
- Defines the status and all conditions, regulations, and funding of the training of Brazilian young students at CERN

Since then, the LHC adventure goes on ... (see Leandro's talk)

Most recent news...



3 March 2022 CERN Press release

“CERN Director-General Fabiola Gianotti and Brazilian Minister for Science, Technology and Innovation Marcos Pontes signed an agreement admitting Brazil as an Associate Member State of CERN. The Associate Membership will enter into force once Brazil has completed all necessary accession and ratification processes. Brazil will be the first country in Latin America to join CERN as an Associate Member State”

“Formal cooperation between CERN and Brazil started in 1990 with the signature of an International Cooperation Agreement, allowing Brazilian researchers to participate in the DELPHI experiment at the Large Electron–Positron Collider (LEP). Today, Brazilian institutes participate in all the main experiments at the Large Hadron Collider (LHC): ALICE, ATLAS, CMS and LHCb. They are also involved in several other experiments... “

The LAPE- IF/UFRJ collaboration with CERN has paved the way towards the scientific Brazil-CERN association. Long live to them