

## **DPHEP Panel History (from ICFA minutes)**

**Sep 2008:** phone discussion of a provisional Steering Committee on "Data persistency" (DESY, SLAC, FNAL, KEK, IHEP,...) then workshop at DESY in Jan. 2009 etc.

**Oct: 2008 ICFA Symposium** in SLAC: Data Preservation in HEP is presented: the Study Group is mentioned for the first time.

### **2009 Hamburg (Lepton-Photon) ICFA Meeting**

Cristinel Diaconu presented (Attachment II) the outcome of an International Study Group which examined the case for, and possible mechanisms to carry out, preservation of data from particle physics experiments. He made the request that ICFA:

- Support data preservation in particle physics
- Endorse the International Study Group as an ICFA subgroup
- Nominate a Chair for the subgroup

There was considerable discussion following Diaconu's presentation, including which data should be included, who will be responsible for preserving the data, and considerations of who should have access to the data.

ICFA approved the above requests, and agreed to Diaconu being Chair of the subgroup for the first year.

### **2010 Paris (ICHEP)**

Cristi Diaconu (Attachment VI) described the 2009/1010 activities of the Data Preservation Study Group (including 4 workshops and 2 open symposia), and the current status of data preservation in the major collaborations. A Blueprint for Data Preservation in High-Energy Physics is in preparation, and it will give estimates of the resources needed. ICFA agreed to continue the mandate of the DPHEP Study Group and its Chair for 2010/2011.

### **2012 Oxford**

Up to now, reported Cristi Diaconu (Attachment VI), there have been 5 workshops and 3 open community sessions on HEP data preservation, where the goal is the preservation of the full analysis capability of an experiment. Dedicated projects have started at DESY and SLAC, and BaBar is moving to "archival mode". Discussions have started at LHC, and are intensifying at CDF and D0; LEP data may also be considered. Diaconu noted that ICFA endorsement of the Panel's activities has been essential to its progress. Study Group on Data Preservation

### **2013 Vancouver**

Jamie Shiers described the Study Group activities, and gave its priorities; the major urgent action is to preserve the full capacity to perform analysis on data from experiments that have completed data-taking. The DPHEP Blueprint was submitted to the European Strategy; the EU Commission has recommended access to, and

preservation of, scientific information. CERN has proposed a DPHEP project management. Shiers noted the effort for data preservation is very scarce, but there are possibilities for future EU funding; failure to invest now would jeopardize the re-use of LEP data, as well as that of HERA, BaBar, Tevatron, etc. The DPHEP recommendations include adoption of the OAIS model for HEP long-term data preservation; ensure that sufficient resources exist through 2013/4 to reach the long-term solution; and a commitment is needed for true long-term data preservation. DPHEP believes that it would be useful for an ICFA Statement on data preservation, and a proposed Statement will be sent to ICFA members for their possible approval. Shiers' presentation is in Attachment VIII. In the discussion that followed, Shiers said that DPHEP has been ongoing for five years, and CERN proposed to fund him as project manager for three years starting from 1 January 2013. He said that there is significant cooperation from other regions and experiments (Tevatron, Belle, etc.), but long term commitments are needed. It is not too early or too late for LHC experiments to think about data preservation, although it would have been better to consider this five years ago.

### **2014 DESY**

Cristinel Diaconu said that the collaboration agreement on data preservation (which followed from the 2013 ICFA Statement) has been signed by CERN, and more signatures are hoped for in the coming year. There are dedicated preservation projects at SLAC, DESY and Fermilab, while data preservation is included in LHC experiment computing models. The dominant cost for data preservation is for personnel. Diaconu gave a work plan for 2014. His presentation is in Attachment IX.

### **2017 Valencia**

Cristinel Diaconu reported on the DPHEP panel and showed the timeline, with the DPHEP group forming as an ICFA panel in 2009 to consolidation into the DPHEP project in 2012-- 14, signing of the agreements in 2014 and leading to formation of the DPHEP collaboration. He also showed activities of the collaboration since then. Diaconu summarized the pre-- LHC experiments data preservation from various HEP labs in the world, the scientific results from those and remarked that the transition from experiments-- driven to lab-- supported data preservation (DP) systems has been mostly accomplished, but the DP system need to be supported. Diaconu then discussed LHC data preservation, which is now a specification in the computing models for Phase-- I/II upgrades. The LHC open data service was launched in Nov. 2014 with the first large-- scale release of CMS data. Major update is planned for 2017. In addition, CERN analysis preservation (CAP) will save the materials and knowledge produced during analysis for future use.

Efforts are also underway for Interdisciplinary Data Preservation (collaborating with Astrophysics, in particular). The DPHEP project is also connecting with global and national initiatives for "Big-- data".

Diaconu summarized DPHEP vision for 2020 and beyond, and said that providing a new ICFA mandate up to 2020 is beneficial to this activity. A status report by DPHEP collaboration is available at <http://arxiv.org/abs/1512.02019>.

### **2018 Cambridge**

presented but panels presentations were not summarized to minutes

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**Note also the panels regulations adopted by ICFA in 2016, just in case you did not find them:**

The following proposals were made:

- (1) the panels should be created with a defined initial duration and should be reviewed periodically and, at the end of the initial period before renewing for an additional period;
- (2) panel chairs be appointed by ICFA for an initial term of three years, renewable for an additional term;
- (3) panel members are selected by the panel chair with the help of the community and are to be approved by ICFA;
- (4) the mandate for the panel is provided by ICFA, in concurrence with the panel chair.

Panels that should continue to exist in order to serve the interests of ICFA and of the community could be Standing Committees. These committees should also be reviewed periodically, and the membership and chair positions updated.