

# 4<sup>th</sup> DPHEP Workshop Introduction and Organization

4<sup>th</sup> Workshop on Data Preservation in High Energy Physics  
8-10 July 2010 @ 



**Local organizing Committee**  
Nobuo Kariyama  
Isakuro Hagi  
Mitsuo Nozaki  
Yoshinobu Sakai  
Takashi Sasaki


**International Steering Committee**  
DO: Jonathan Dorfan (SLAC)  
ZEUS: Tobias Bauer (DESY)  
FNAL/D0: Armin Mikheev (DOE)  
FNAL-T: Victoria White (FNAL)  
DO: Dmitri Deplanche (FNAL), Stefan Soldner-Nordhoff (FNAL)  
CDF: Jacobo Konigsberg (FNAL), Robert Rose (FNAL)  
BEP: Gang Chen (BEP)  
RES: R. J. Young (RES)  
KEK: Kazuki Sasaki (KEK)  
Belle: M. Hagiwara (KEK), John Brown (Hawaii)  
SLAC: Rick H. Mount (SLAC)  
Babar: Francois Le Gallander (LAL/SLAC)  
CERN: Frederic Herwig (CERN)  
CERN/PARIS: Silvano Muta (CERN)  
LHC: David Asker (CERN)  
STFC: John Gordon (STFC)

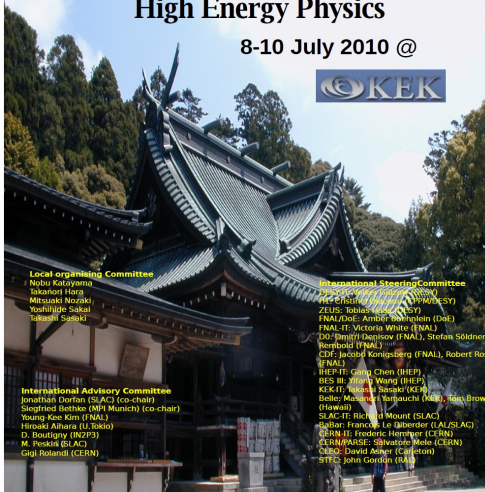
**International Advisory Committee**  
Jonathan Dorfan (SLAC) (co-chair)  
Siegfried Bethke (MPI Munich) (co-chair)  
Young Kee Kim (FNAL)  
Haruki Aihara (J. Tokai)  
D. Boutigny (IN2P3)  
M. Pospelov (SLAC)  
Giulio Rolandi (CERN)

 Study Group for Data Preservation and Long Term Analysis in High Energy Physics

@ KEK  
8 → 10 July 2010  
by  
Homer Neal (SLAC)

MANY THANKS TO THE LOCAL ORGANIZERS FOR HAVING THE WORKSHOP HERE


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# DPHEP Community



- ◆ Collider Experiments ( $e^+e^-$ , ep, pp)
  - ◆ Computing Centers
- ◆ Some funding agencies
  - ◆ ~50 contact persons

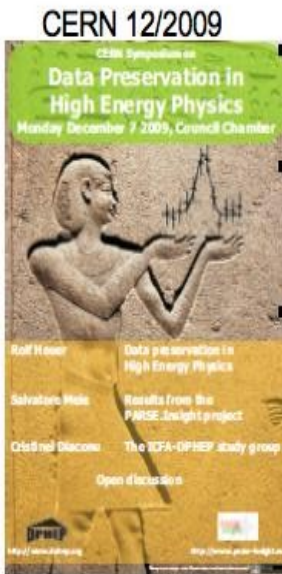
DPHEP

## ICFA Study Group on Data Preservation and Long Term Analysis in High Energy Physics

High Energy Physics experiments initiate with this **Study Group** a common reflection on **data persistency and long term analysis** in order to get a common vision on these issues and create a multi-experiment dynamics for further reference. The objectives of the Study Groups are:

- \*Review and document the physics objectives of the data persistency in HEP.
- \*Exchange information concerning the analysis model: abstraction, software, documentation etc. and identify coherence points.
- \*Address the hardware and software persistency status
- \*Review possible fundings programs and other related international initiatives.
- \*Converge to a common set of specifications in a document that will constitute the basis for future collaborations.

Since August 2009, the Study Group is endorsed by **ICFA (International Committee for Future Accelerators)**.



- First Workshop on Data Preservation and Long Term Analysis in HEP, DESY, January 26-28, 2009
- Second Workshop on Data Preservation and Long Term Analysis in High Energy Physics, SLAC, May 26-28, 2009.
- **Third Workshop on Data Preservation and Long Term Analysis in HEP, CERN, December 7-9, 2009. Includes an Open Symposium with invited talks and a general discussion on the Data Preservation in High Energy Physics.**




**"Preserving the Data Harvest" (Symmetry 12/2009)**

**Editorial (Symmetry 12/2009)**

**CERN Symposium on Data Preservation in HEP, CERN, January 7, 2009**

The Symposium started with an address of Prof. Rolf Heuer (CERN Director General), underlining the importance of data preservation for the scientific research in high-energy physics: "Preserved data can improve the scientific return of the investment." [\[More\]](#)

**Intermediate Report**

The DPHEP intermediate report is released to [arxiv:0912.0255](#) [\[More\]](#)

**Working Groups**

- WG1: Physics Case
- WG2: Models
- WG3: Governance
- WG4: Technologies

# 4<sup>th</sup> Workshop on Data Preservation in High Energy Physics

8-10 July 2010 @



## Local organising Committee

Nobu Katayama  
Takanori Hara  
Mitsuaki Nozaki  
Yoshihide Sakai  
Takashi Sasaki

## International Advisory Committee

Jonathan Dorfan (SLAC) (co-chair)  
Siegfried Bethke (MPI Munich) (co-chair)  
Young-Ke Kim (FNAL)  
Hiroaki Aihara (U.Tokio)  
D. Boutigny (IN2P3)  
M. Peskin (SLAC)  
Gigi Rolandi (CERN)

## International Steering Committee

DESY-IT: Volker Gülzow (DESY)  
FI: Cristinel Diaconu (CPPM/DESY)  
ZEUS: Tobias Haas (DESY)  
FNAL/DoE: Amber Boehnlein (DoE)  
FNAL-IT: Victoria White (FNAL)  
D0: Dmitri Denisov (FNAL), Stefan Söldner-Rembold (FNAL)  
CDF: Jacobo Konigsberg (FNAL), Robert Rose (FNAL)  
IHEP-IT: Gang Chen (IHEP)  
BES III: Yifang Wang (IHEP)  
KEK-IT: Takashi Sasaki (KEK)  
Belle: Masanori Yamauchi (KEK), Tom Browder (Hawaii)  
SLAC-IT: Richard Mount (SLAC)  
BaBar: Francois Le Diberder (LAL/SLAC)  
CERN-IT: Frederic Hemmer (CERN)  
CERN/PARSE: Salvatore Mele (CERN)  
CLEO: David Asher (Carleton)  
STFC: John Gordon (RAL)



Study Group for Data Preservation and  
Long Term Analysis in High Energy Physics

# Souvenir of Japan's Great Global Influence on HEP



Celebrating 15 years of collaboration between U.S. and Japanese physicists at SLAC and KEK, Japanese Emperor Akihito and Empress Michiko visited SLAC on June 23, 1994. Shown on a tour of the SLD operations, in the foreground are (left to right) Burt Richter (SLAC Director), Harvey Lynch, Emperor Akihito, and Empress Michiko.

# Preserving the Founding Records of a Great Nation

- «The book [Records of Three Kingdoms] is also important to the research of Japan's history (where it is known as Sangokushi ( 三国志 ?)), for its volume on the Wa people is the first historical document to make explicit mention of Japan. It describes the ancient country of Yamataikoku and its queen, Himiko. »

(from [http://en.wikipedia.org/wiki/Records\\_of\\_Three\\_Kingdoms](http://en.wikipedia.org/wiki/Records_of_Three_Kingdoms) )

- **Now preserved through documentation on Wiki's and available through the same Amazon servers that may be used for HEP archival production:**

<http://www.amazon.ca/Three-Kingdoms-Historical-Novel-Unabridged/dp/0520224787>



# Preserving the data of great particle experiments:

## Importance of the upcoming workshop

- A good and productive outcome of this workshop is critical to insure the success of the effort. At this workshop DPHEP will define the organization structure, projects and costing in the form of a blueprint document:

### **BLUEPRINT:**

- Concrete, costed, R&D projects to enable preservation
- Experiment specific and across several initiatives
- Skeleton for local, regional, lab, national, international proposals
- Gathering collective expertise in preparatory phase
- ...

# The World is Eager to Hear from us.

- Several articles have recently appeared in a variety of HEP publications concerning DPHEP

## SLAC Today

## Symmetry

## Frankfurter Rundschau

### BaBar Collaboration Caps Meeting Week with 400th Scientific Publication

by Lauren Knoche

The BaBar Collaboration reached another milestone Tuesday—just in time for celebration during the [group's meeting](#), which ends today at SLAC. The collaboration published its 400th paper Tuesday, less than nine years after publishing its first in 2001. That's an average of one publication per week, every week, for nearly nine years straight.

"I do not know of any other collaboration that has achieved such a production rate of outstanding quality science in particle physics, it is really something rare," said BaBar spokesperson Francois Le Diberder.

The [milestone paper](#) was published online Tuesday and appears in the November 1, 2009 issue of *Physical Review D* (Volume 80, Number 9). The study examines differences in the rates at which subatomic particles called *B+* mesons and their antiparticle partners, *B-* mesons, decay to related particles called "charm" and "strange"



(Photo by Brad Plummer.)



Canning, pickling, drying, freezing—physicists wish there were an easy way to preserve their hard-won data so future generations of scientists, armed with more powerful tools, can take advantage of it. They've launched an international search for solutions.

By Nicholas Bock

### 20 | WISSEN & BILDUNG

Frankfurter Rundschau | Dienstag, 16. Februar 2010

#### NACHRICHTEN

### Therapeutische Impfung gegen Leberkrebs denkbar

Tübinger Forscher entwickeln eine Impfung gegen Leberkrebs – aber keine vorbeugende, sondern eine therapeutische Impfung: Sie soll das Immunsystem auf die bösartigen Zellen aufmerksam machen und so dafür sorgen, dass die körpereigene Abwehr die Krebszellen selbst beseitigt. Gedacht ist die Therapie für Patienten, bei denen ein Tumor aus der Leber entfernt wurde – der Impfstoff soll dann anschließend verhindern, dass die Erkrankung erneut ausbricht. Klinische Tests könnten möglicherweise in der zweiten Jahreshälfte 2012 beginnen, so die Uni Tübingen. Bei Krebszellen weicht das Eiweißprofil etwas von dem normaler Körperzellen ab. Das ermöglicht es dem Immunsystem, die bösartigen Zellen zu erkennen. Allerdings sind die Maßnahmen der körpereigenen Abwehrtruppen im Fall von Krebstumoren meist nicht besonders effektiv. Mit Hilfe einer Impfung kann die Abwehrreaktion des Körpers jedoch intensiviert werden. ddp

### Forscher empfehlen neue Namen für Kondomgrößen

Weil viele Männer über schlecht

## Hieroglyphen im Teilchenlabor

Alte Forschungsergebnisse gehen verloren

Von Thomas Bührke

Wenn der neue Teilchenbeschleuniger LHC des Europäischen Teilchenlabors Cern in Genf demnächst mit seiner vollen Leistung arbeitet, wird er einen bis dahin beispiellosen Datenberg erzeugen. Doch die Messergebnisse älterer Beschleuniger werden dadurch nicht überflüssig. Weil sich die Teilchenforscher über die Archivierung ihrer Daten bislang kaum Gedanken gemacht haben, drohen diese unwiederbringlich verloren zu gehen. Erst jetzt versuchen sie, den wissenschaftlichen Schatz zu erhalten.

In den vergangenen 80 Jahren sind weltweit mehr als 50 Teilchenbeschleuniger unterschiedlicher Größe und Bauart entstanden, mit denen Forscher den Aufbau der Materie studiert haben. Jahrzehnte lang waren sie der Meinung, dass die Messwerte eines neuen, leistungsfähigeren Beschleunigers diejenigen des Vorgängers überflüssig machen, weswegen man die alten Daten nicht sorgfältig archivieren müsse.

Richard Mount vom National Accelerator Laboratory Slac in Stanford brachte das Problem jüngst auf den Punkt: „Die Daten werden sehr schnell zu einer geheimnisvollen, toten Sprache.“ Moderne Hieroglyphen gewissermaßen. Doch niemand will sich die „langweilige“ und wissenschaftlich nicht einträgliche Arbeit der Datenarchivierung aufhalsen.

Dem schleichenden Informationsschwund will jetzt eine internationale Gruppe von Physikern mit dem Projekt Data Preservation and Long Term Analysis in High Energy Physics (DPHEP) entgegenzutreten. Doch damit verhält es sich ähnlich wie mit dem Artenschutz: „Jeden Tag geht ein Teil der auf Magnetbändern gespeicherten Daten des Cern-Beschleunigers LEP verloren“, sagt Bethke. Geht ein Datenträger gar kaputt, ist alles unwiederbringlich verloren.

Selbst wenn die Software noch funktioniert, ist nicht gesagt, dass Physiker sie beherrschen






# Initial DPHEP Report

<http://arxiv.org/abs/0912.0255v1>

DPHEP-2009-001  
November 30, 2009

## Data Preservation in High-Energy Physics

 Study Group for Data Preservation and  
Long Term Analysis in High Energy Physics

<http://dphep.org>

**Abstract**

Data from high-energy physics (HEP) experiments are collected with significant financial and human effort and are mostly unique. At the same time, HEP has no coherent strategy for data preservation and re-use. An inter-experimental Study Group on HEP data preservation and long-term analysis was convened at the end of 2008 and held two workshops, at DESY (January 2009) and SLAC (May 2009). This document is an intermediate report to the International Committee for Future Accelerators (ICFA) of the reflections of this Study Group.




Made public in  
November 2009  
and incorporated  
the  
recommendations  
from the summer  
2009 ICFA meeting

# Blueprint Preparation

DPHEP-2010-001  
June, 2010

**Blueprint of  
Data Preservation in High-Energy Physics**

 Study Group for Data Preservation and  
Long Term Analysis in High Energy Physics

<http://dphep.org>

**Abstract**

Data from high-energy physics (HEP) experiments are collected with significant financial and human effort and are mostly unique. At the same time, HEP has no coherent strategy for data preservation and re-use. It proposes an International Organization devoted to the data preservation in high-energy physics. The organization is structured around an inter-experimental Study Group supervised by the International Committee for future Accelerators (ICFA). The present document presents the motivation for such an organization, collects example of initiatives at experiment level, defines common R&D projects and draw the main lines of the

## ◆ BLUEPRINT:

- ◆ Concrete, costed, R&D projects to enable preservation
  - ◆ Experiment specific and across several initiatives
  - ◆ Skeleton for local, regional, lab, national, international proposals
  - ◆ Gathering collective expertise in preparatory phase
- ◆ Much of the text was written during the 3<sup>rd</sup> workshop
- ◆ Goal is to complete the document very soon this summer

# BluePrint Content

**Chapter 1: Executive Summary and General remarks**

**Chapter 2: The Scientific Potential of the Data Preservation in High Energy Physics**

**Chapter 3: Experiments Data Preservation projects**

**A: project/hardware/resources**

**B: governance, international scene**

**Chapter 4: Inter-experiment R&D survey**

**Chapter 5: DPHEP**

## Chapter 2: The Scientific Potential of the Data Preservation in High Energy Physics

- ◆ Prospects for the utility of the whole enterprise
- ◆ Examples from the past: JADE+DIS+...
- ◆ Examples of “Gedanken experiments” on archived data
  - ◆ i.e. where are the non-experimental weak points
  - ◆ Quantify what is needed to re-do the analysis
  - ◆ What the result would look like if some errors were reduced
- ◆ A summary of policies/practices in other fields

# Chapter 3: Experiments DP projects

## A: project/hardware/resources

- ◆ The present computing model
  - ◆ Description of data model
  - ◆ Event size
  - ◆ Data sample: events, size
  - ◆ MC simulation: size, production
  - ◆ Reprocessing strategy
  - ◆ Analysis resources
  - ◆ Team/Person power
- ◆ The archival system (description)
  - ◆ Level (1 to 4)
  - ◆ Description of the transition steps
  - ◆ Timescales
  - ◆ Lifetime?
  - ◆ Virtualisation
- ◆ The resources
  - ◆ Person power for R&D
  - ◆ Effort within the experiment: Organization of the effort
  - ◆ External needs: peak R&D, data archivist

# Chapter 3: Experiments DP projects

## A: project/hardware/resources

- ◆ Hardware requirements and Computing Center issues

  - Archival strategy: what “bits” will be “stored”

  - Costs of the data storage in the computing centers

  - Investigate a few options: tapes preserving; disks; virtual machines

  - Including access operations

### Data archivist requirements: daily/monthly/yearly tasks

  - Training procedure: part of the data archival preparation

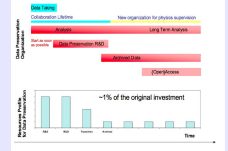
  - Shared job? Permanent job?

  - Tasks associated with the preservation model

  - FTE estimation/sharing

# Chapter 3: Experiments DP projects

## B: governance, international scene



- ◆ Organisation of the Physics Supervision (connection to DPHEP)
  - ◆ Membership, transition, timelines
  - ◆ Functions of the “governance body”: supervise the archivists activity
  - ◆ Access
  - ◆ Mandate from the collaboration on data changes, archival system evolution
  - ◆ Selection committee for the archivist
  - ◆ Interface with the host laboratory: technical support
- ◆ Costs/benefits statement
  - ◆ Physics potential versus archival costs
- ◆ Interface to DPHEP
  - ◆ Communication and resources from the experiments to DPHEP
  - ◆ Larger community and exchange, visibility for archivists

template for an experiment to be part of DPHEP

# Chapter 4:

## Inter-experiment R&D survey

- ◆ **Technology for Data Preservation-forum to facilitate R&D**
  - ◆ Virtualization
  - ◆ Multi-core
  - ◆ Validation Suites?
  - ◆ Super-structure for archival systems?
- ◆ **Outreach**
  - ◆ Standard formats, tools, communication techniques
- ◆ **Extension of the public documentation (INSPIRE)**
  - ◆ Figures, Ntuples, Notes and internal legacy
- ◆ **The important and means for establishing Standards for Data Preservation in HEP**



# Chapter 5: DPHEP

## ◆ Modus Operandi

- ◆ management definitions, meetings, reports

## ◆ Connections levels

- ◆ Experiments
  - ◆ Supervisions committees ↔ DPHEP
- ◆ Laboratories
  - ◆ Data Archive Team ↔ DPHEP
- ◆ Connections from external HEP contributors
- ◆ Connections to other fields

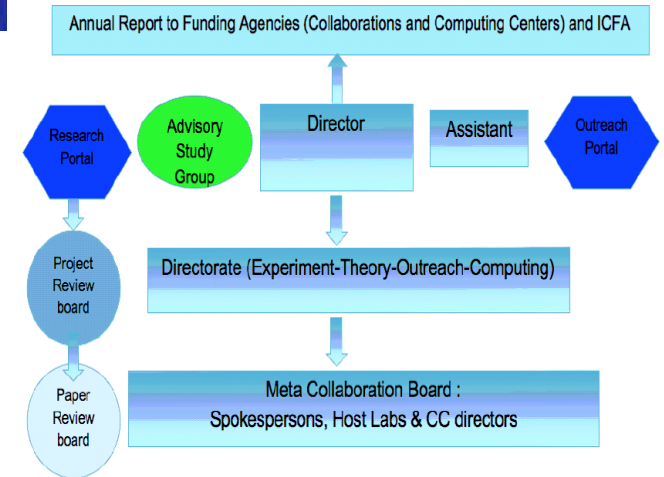
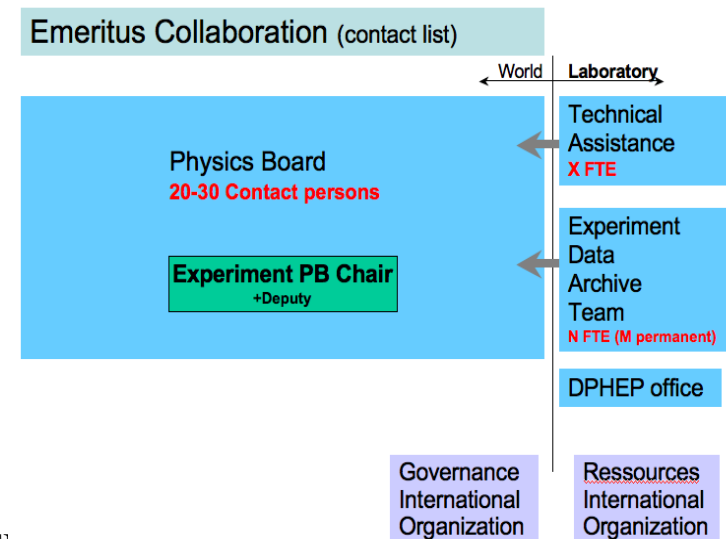


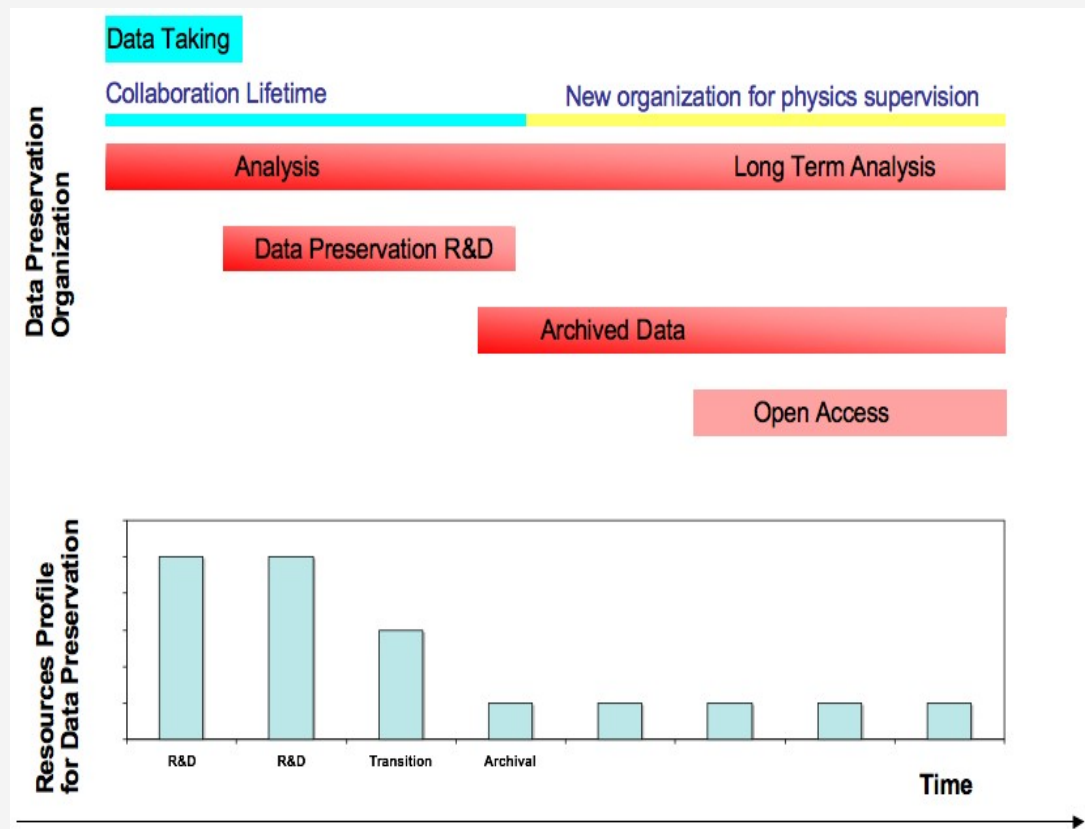
Figure 2: Organisation of an international forum for data preservation in high-energy physics.

## A long term organization of HEP experiments



# Resources for Data Preservation at the **experiment level**

- ▶ **Planning the transition to a long term analysis model**
- ▶ **R&D needed**
  - ▶ Data migration models
- ▶ **Data Archivist position**
  - ▶ Long-term custodianship
  - ▶ Similar to other fields
- ▶ **Resources per experiment**
  - ▶ “surge”: 2-3 FTE’s\*(2-3 yrs.)
  - ▶ **To be compared to ~300-500 FTE’s/expt.**
    - \* many yrs.
  - ▶ “archival”: 1 FTE (perm/lab.)



# Current Organization

- ◆ Chair: Cristinel Diaconu (DESY/CPPM)
- ◆ **Working Group Convenors:**
- ◆ **Physics Case:**
  - ◆ François Le Diberder (SLAC)
- ◆ **Preservation Models:**
  - ◆ David South (DESY) ,  
Homer Neal (SLAC)
- ◆ **Technologies:**
  - ◆ Stephen Wolbers (FNAL),  
Yves Kemp (DESY)
- ◆ **Governance:**
  - ◆ Salvatore Mele (CERN)

# Fourth Workshop on Data Preservation and Long Term Analysis in HEP

chaired by Cristinel Diaconu (Faculte des Sciences de Luminy) , Nobu Katayama, David South (DESY) , Mitsuaki Nozaki (KEK, LOC Chair) , yoshihide Sakai (KEK) , Takashi Sasaki

from Thursday 08 July 2010 at **08:00** to Saturday 10 July 2010 at **18:00** (Asia/Tokyo)  
at KEK ( 3 gokan seminar hall (K03) )

Manage ▾

**Description** This is the 4th Workshop of the Data Preservation in HEP ICFA subpanel. At this workshop the foundations of the effort will be established through the completion of the DPHEP blueprint. The organization will be defined and the specific projects will be detailed and costed. In addition, there will be updates from the various participating experiments on their efforts on data preservation and talks from other fields about subjects related to data preservation.

EVO Title: Fourth Workshop on Data Preservation and Long Term Analysis

EVO Community: Universe

EVO Password: dplta

Day 1: Phone Bridge ID: 2084877 EVO Phone Bridge Password: 5488  
URL: <http://evo.caltech.edu/evoNext/koala.jnlp?meeting=MMMeMn2e28DtDn9u9BD29M>

Day 2: Phone Bridge ID: 2084888 EVO Phone Bridge Password: 5488  
URL: <http://evo.caltech.edu/evoNext/koala.jnlp?meeting=M2MvMB2v2iDsDB9I92DM92>

Day 3: Phone Bridge ID: 2084901 EVO Phone Bridge Password: 5488  
URL: <http://evo.caltech.edu/evoNext/koala.jnlp?meeting=MsMiMI2i2vD2DI9D9DDt9s>

EVO phone bridge numbers: <http://evo.caltech.edu/evoGate/telephone.jsp>

**Participants** Matthew Bellis; Travis Brooks; Tom Browder; Rene Brun; Gang Chen; Cristinel Diaconu; Bostjan Golob; Takanori Hara; Andre Georg Holzner; Nobuhiko Katayama; Thomas Kuhr; Francois Rene Le Diberder; Homer Neal; Yoshihide Sakai; Hiroshi Sakamoto; Takashi Sasaki; Martin Sevier; Rick Snider; David South

**Material** [Map](#) [Poster](#)

**Registration** Want to participate? [Apply here](#)

Go to day ▾

## Thursday 08 July 2010

- |               |  |   |
|---------------|--|---|
| 10:00 - 12:00 | KEK Symposium on Data Preservation   | ▾ |
| 10:00         | <b>Introduction and Welcome</b> 10'  | ▾ |
| 10:10         | <b>An experience on data preservation: alpha_s measurements over three decades</b> 30'           | ▾ |
|               | Speaker: Siegfried Bethke (Max-Planck-Institut fur Physik)                                       |   |
| 10:40         | <b>The community case for HEP data preservation, results from the PARSE.Insight project,</b> 40' | ▾ |

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## Thursday 08 July 2010

- 10:00 - 12:00 KEK Symposium on Data Preservation ▾
- 10:00 **Introduction and Welcome** 10' ▾
- 10:10 **An experience on data preservation: alpha\_s measurements over three decades** 30' ▾  
Speaker: Siegfried Bethke (Max-Planck-Institut für Physik)
- 10:40 **The community case for HEP data preservation, results from the PARSE.Insight project,** 40' ▾  
Speaker: Salvatore Mele (CERN)
- 11:20 **Data Preservation in High Energy Physics: ICFA Study Group report** 20' ▾  
Speaker: Cristinel Diaconu (Faculte des Sciences de Luminy)
- 12:00 - 14:00 Lunch 0
- 14:00 - 18:30 Session extended to other fields: astrophysics, distributed computing, generic digital preservation programs etc. ▾  
Location: 6-2-004
- 14:00 **Introduction and workshop organization** 30' ▾  
Speakers: Homer Neal (Physics Department) , Cristinel Diaconu (Faculte des Sciences de Luminy)
- 14:30 **KEK Computing Center (a general presentation)** 30' ▾
- 15:00 **ATLAS analysis and computing in Japan** 30' ▾  
Speaker: Hiroshi Sakamoto (Department of Physics Particle Physics)
- 15:30 **B-factories Legacy Book** 30' ▾  
Speaker: Bostjan Golob (University of Ljubljana, Slovenia)
- 16:00 **Break** 30'
- 16:30 **Cloud computing in HEP: the Belle experience** 30' ▾  
Speaker: Martin Seviar (University of Melbourne)
- 17:00 **Digital Preservation in libraries and engineering** 30' ▾  
Speaker: Adil Hasan
- 17:30 **Data Conservancy: an interdisciplinary project on data preservation** 30' ▾  
Speaker: Sayeed Choudhury (John Hopkins University)















## Friday 09 July 2010

- 08:30 - 12:30 Experiments' data preservation projects: status and plans ▾  
Location: 354-1-001

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## Friday 09 July 2010

- 08:30 - 12:30 Experiments' data preservation projects: status and plans   
Location: 354-1-001
- 08:30 **Data preservation at Belle/KEK** 35'   
Speaker: Takanori Hara (BELLE)
- 09:05 **Data preservation at BaBar/SLAC** 35'   
Speaker: Homer Neal (SLAC)
- 09:40 **Data Preservation at HERA/DESY** 35'   
Speaker: David South (DESY)
- 10:15 **break** 30'
- 10:45 **Data Preservation at Tevatron/FNAL** 35'   
11:20 **Data Preservation at CLAS/JLAB** 35'   
11:55 **Inspire project** 35'   
Speaker: Travis Brooks (SLAC)
- 12:30 - 13:30 Lunch 0
- 13:30 - 16:30 Blue print: Physics Case, Models   
14:00 **Chapter 2: Physics Motivation: detailed cases, simulations** 30'   
14:30 **Chapter 3: Experiments archival models** 30'   
15:00 **break** 15'
- 15:15 **Chapter 4: DPHEP Common projects** 30'   
15:45 **Chapter 5: DPHEP Organization** 30' 
- 16:30 - 18:00 Cross-over 2+5 3+4   
18:00 - 19:00 sum-up/open questions 

We are delighted to  
welcome JLAB to  
the DPHEP effort!

## Saturday 10 July 2010

- 08:30 - 12:00 Open questions/proposals   
08:30 **Chapter 1: Executive summary** 1h00'   
09:30 **Chapter 6: Conclusions/Outlook** 1h00'   
10:30 **ICFA report** 30'   
11:00 **Plans for funding** 45' 

<http://indico.cern.ch/event/95512>  
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