

## **Session Program**

**September 27, 2004 to October 1, 2004**



# **CHEP04**

## ***Poster Session 3***

Interlaken, Switzerland

# Thu, September 30

10:00 AM

## Poster Session 3: Event Processing, Core Software

Poster Session | Location: Interlaken, Switzerland, Coffee

### Managing third-party software for the LCG

**Speaker**

E. Poinsignon

### INDICO - the software behind CHEP 2004

**Speaker**

T. Baron

### The Description of the Atlas Detector

**Speaker**

Vakhtang tsulaia

### Parallel compilation of CMS software

**Speaker**

S. Schmid

### New specific solids definitions in the Geant4 geometry modeller

**Speaker**

O. Link

### ROOT : detector visualization

### The ROOT Linear Algebra

**Speaker**

R. Brun

### Dynamic Matched Filters for Gravitational Waves Detection

**Speaker**

Dr S. Pardi

### Extending EGS with SVG for Track Visualization

**Speaker**

B. White

### Comparative study of the power of goodness-of-fit algorithms

**Speaker**

M.G. Pia

### Precision validation of Geant4 electromagnetic physics

**Speaker**

M.G. Pia

### Experience with the Unified Process

**Speaker**

M.G. Pia

**The Geometry Package for the Pierre Auger Observatory****Speaker**

L. Nellen

**Muon Event Filter Software for the ATLAS Experiment at LHC****Speaker**

Dr M. Biglietti

**Geant4 as Simulation Toolkit addressed to interplanetary manned missions studies: required developments and improvements****Speaker**

S. Guatelli

**A high-level language for specifying detector coincidences****Speaker**

F. Gray

**Harp data and software migration from Objectivity to Oracle****Speaker**

A. Valassi

**Persistence for Analysis Objects****Speaker**

J. Hrivnac

**GraXML****Speaker**

J. Hrivnac

**The ZEUS Global Tracking Trigger****Speaker**

Dimitri gladkov

**Software Management in the HARP experiment****Speaker**

E. Tcherniaev

**Monte Carlo Event Generation in a Multilanguage, Multiplatform Environment****Speaker**

N. Graf

**Visualisation of the ROOT geometries (TVolume and TGeoVolume) with Coin-based model.****Speaker**

Mr A. Kulikov

**The FEDRA - Framework for Emulsion Data Reconstruction and Analysis in OPERA experiment.****Speaker**

Dr V. Tioukov

**The LCG Savannah software development portal****Speaker**

Y. Perrin

**Pixel Reconstruction in the CMS High-Level Trigger****Speaker**

Dr S. Cucciarelli

**The application of PowerPC/VxWorks to the read-out subsystem of the BESIII DAQ****Speaker**

Mei Ye

**New Applications of PAX in Physics Analyses at Hadron Colliders****Speaker**

A. Schmidt

**Detector-independent vertex reconstruction toolkit (VERTIGO)****Speaker**

Mr W. Waltenberger

**Development of algorithms for cluster finding and track reconstruction in the forward muon spectrometer of ALICE experiment****PyBus -- A Python Software Bus****Speaker**

W. Lavrijsen

**CMD-3 Project Offline Software Development****Speaker**

A. Zaytsev

**Automated Tests in NICOS Nightly Control System****Speaker**

A. Undrus

**Adaptive Multi-vertex fitting****Speaker**

W. Waltenberger

**CMS Tracker Visualisation Tools****Speaker**

M.S. Mennea

**Tracking of long lived hyperons in silicon detector at CDF.****Speaker**

Dr E. Gerchtein

**Deterministic Annealing for Vertex Finding at CMS****Speaker**

Dr E. Chabanat

**The CEDAR Project**

**Speaker**

Dr M. Whalley

**Domain Specific Visual Query Language for HEP analysis or How far can we go with user friendliness?****Speaker**

V M. Moreira do Amaral

**RDBC: ROOT DataBase Connectivity****Speaker**

V. Onuchin

**Carrot ROOT Apache Module****Speaker**

Mr V. Onuchin

**The Track Extrapolation package in the new ATLAS Tracking Realm****Speaker**

A. Salzburger

**Simulation and reconstruction of heavy ion collisions in the ATLAS detector.****Speaker**

P. Nevski

**BFD: A software management & deployment tool for mixed-language distributed projects****Speaker**

M. Stoufer

**Transparently managing time varying conditions and detector data on ATLAS.****Speaker**

C. Leggett

**The TAG Collector - A Tool for Atlas Code Release Management****Speaker**

S. Albrand

**CMS Software Installation****Speaker**

K. Rabbertz

**Mantis: the Geant4-based simulation specialization of the CMS COBRA framework****Speaker**

M. Stavrianiakou

**ROOT Graphical User Interface****Speaker**

I. Antcheva

**Recent evolutions of CMT. Multi-project and activity management.****Speaker**

C. ARNAULT

**Porting CLEO software to Linux**

**Speaker**  
V. Kuznetsov

### **Specifying Selection Criteria using C++ Expression Templates**

**Speaker**  
C. Jones

### **Paths: Specifying Multiple Job Outputs via Filter Expressions**

**Speaker**  
C. Jones

### **ATLAS Detector Description Database Architecture**

### **OpenPAW**

**Speaker**  
G B. Barrand

### **Rio**

**Speaker**  
G B. Barrand

### **A database perspective on CMS detector data**

### **Status and Plans of the LCG PI Project**

**Speaker**  
A. Pfeiffer

### **Validation of the GEANT4 Bertini Cascade model and data analysis using the Parallel ROOT Facility on a Linux cluster**

### **Volume-based representation of the magnetic field**

**Speaker**  
T. Todorov

### **The Binary Cascade**

**Speaker**  
Dr G. Folger

### **Porting LCG Applications**

**Speakers**  
I. Reguero, J A. Lopez-Perez

### **The WEB interface for the ATLAS/LCG MySQL Conditions Databases and performance constraints in the visualisation of extensive scientific/technical data**

**Speaker**  
D. Klose

### **Conditions Databases: the interfaces between the different ATLAS systems**

**Speaker**  
D. KLOSE

### **"RecPack", a general reconstruction tool-kit**

**Speaker**

A. CERVERA VILLANUEVA

**A Pattern-based Continuous Integration Framework for Distributed EGEE Grid  
Middleware Development**

**Speaker**

A. Di Meglio

11:00 AM