

Session Program

1-5 Sept 2014



ACAT 2014

Computing Technology for Physics Research

Faculty of Civil Engineering
Faculty of Civil Engineering, Czech Technical University in Prague Thakurova 7/2077 Prague 166 29
Czech Republic

Monday 1 September

14:00

Computing Technology for Physics Research: Monday

Session |

Location: Faculty of Civil Engineering, C217, Faculty of Civil Engineering, Czech Technical University in Prague
Thakurova 7/2077 Prague 166 29 Czech Republic |

Convener: Axel Naumann

14:00–14:25

The LHCb trigger and its upgrade

Speaker

Gerhard Raven

14:25–14:50

The Massive Affordable Computing Project: Prototyping of a High Data Throughput Processing Unit

Speaker

Mitchell Arij Cox

14:50–15:15

STAR Online Framework: from Metadata Collection to Event Analysis and System Control

Speaker

Dmitry Arkhipkin

15:40

16:10

Computing Technology for Physics Research: Monday

Session |

Location: Faculty of Civil Engineering, C217, Faculty of Civil Engineering, Czech Technical University in Prague
Thakurova 7/2077 Prague 166 29 Czech Republic |

Convener: Niko Neufeld

16:10–16:35

ATLAS FTK challenge: simulation of a billion-fold hardware parallelism

Speaker

Alexandre Vaniachine

16:35–17:00

Heterogeneous High Throughput Scientific Computing with ARMv8 64-bit and Xeon Phi

Speaker

David Abdurachmanov

17:00–17:25

Techniques and tools for measuring energy efficiency of scientific software applications

Speaker

Goncalo Marques Pestana

17:25–17:50

The ALICE analysis train system

Speaker

Markus Bernhard Zimmermann

17:50

Tuesday 2 September

14:00

Computing Technology for Physics Research: Tuesday

Session |

Location: Faculty of Civil Engineering, C217, Faculty of Civil Engineering, Czech Technical University in Prague
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Convener: Niko Neufeld

14:00–14:25

Adaptative track scheduling to optimize concurrency and vectorization in GeantV

Speaker

Andrei Gheata

14:25–14:50

Towards a generic high performance geometry library for particle transport simulation

Speaker

Sandro Christian Wenzel

14:50–15:15

Native Language Integrated Queries with CppLINQ in C++

Speaker

Vasil Georgiev Vasilev

15:15–15:40

Modernising ROOT: Building Blocks for Vectorised Calculations

Speaker

Sandro Christian Wenzel

15:40

16:10

Computing Technology for Physics Research: Tuesday

Session |

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Convener: Niko Neufeld

16:10–16:35

Gaudi Components for Concurrency: Concurrency for Existing and Future Experiments

Speaker

Daniel Funke

16:35–17:00

Belle II distributed computing

Speaker

Pavel Krokovny

17:00–17:25

Implementation of a multi-threaded framework for large-scale scientific applications

Speaker

Elizabeth Sexton-Kennedy

17:25–17:50

Evolution of the ATLAS Software Framework towards Concurrency

17:50

Speaker
Roger Jones

Thursday 4 September

13:45

Computing Technology for Physics Research: Thursday

Session |

Location: Faculty of Civil Engineering, C217, Faculty of Civil Engineering, Czech Technical University in Prague
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Convener: Jiri Chudoba

13:45-14:10

An overview of the DII-HEP OpenStack based CMS Data Analysis

Speaker

Tomas Linden

14:10-14:35

Distrubuted job scheduling in MetaCentrum

Speaker

Mr Šimon Tóth

14:35-15:00

WLCG Tier-2 site in Prague: a little bit of history, current status and future perspectives

Speaker

Dr Dagmar Adamova

15:00-15:25

Recent Developments in the CVMFS Server Backend

Speaker

Rene Meusel

15:25-15:50

Planning for distributed workflows: constraint based co-scheduling of computational jobs and data placement in distributed environments.

Speaker

Mr Dzmitry Makatun

15:50