

Session Program

15-19 May 2017

9th LHCb Computing Workshop

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CERN, 222/R-001

Monday 15 May

09:00

-: Infrastructure and operations

Session | **Location:** CERN, 222/R-001 | **Conveners:** Ben Couturier, Joel Closier

09:00-09:10 Introduction and Core Software news

Speakers

Ben Couturier, Joel Closier, Marco Clemencic

09:10-09:30 Status of AFS phase-out

Speakers

Ben Couturier, Joel Closier, Marco Clemencic

09:30-09:50 Compiler and platforms evolution

Speakers

Ben Couturier, Marco Clemencic

09:50-10:00 lbininstall: the new LHCb installer

Speakers

Ben Couturier, Stefan-Gabriel Chitic

10:00-10:20 Investigations on the migration to python3

Speaker

Stefan-Gabriel Chitic

10:20-10:50 Break

10:50-11:05 A new dashbord for the nightly builds and tests

Speaker

Stefan-Gabriel Chitic

11:05-11:20 Evolution of deployment system to CVMFS prod and dev

Speakers

Ben Couturier, Stefan-Gabriel Chitic

11:20-11:40 Migration of the LHCb documentation to EOS web

Speaker

Marco Clemencic

11:40-12:10 Improvements to LHCbPR2 and new integration tests

Speaker

Maciej Pawel Szymanski

12:10

14:00

-: HEP Community Initiatives

Session | **Location:** CERN, 222/R-001 | **Convener:** Michael David Sokoloff

14:00-14:30 Overview of the CWP Project and Summaray of the Kick-Off Workshop

Speaker
Vladimir Gligorov

14:30-14:45 **Simulation Issues for the CWP**

Speaker
Gloria Corti

14:45-15:00 **Machine Learning issues for the CWP**

Speaker
Paul Seyfert

15:00-15:50 **1st Breakout Session**

Speaker
Michael David Sokoloff

15:50-16:10 **Coffee Break**

16:10-17:00 **Discussions of Breakout Session Conclusions**

Speaker
Michael David Sokoloff

17:00

Tuesday 16 May

09:00

-: Data Processing & Simulation
 Session | Location: CERN, 222/R-001 | Convener: Marco Cattaneo

09:00-09:30 Roadmap for Sim10

Speaker
Gloria Corti

09:30-09:50 Fast simulation

Speaker
Riccardo Cenci

09:50-10:10 Deployment and validation of Git conditions database

Speaker
Marco Clemencic

10:10-10:30 Coffee

10:30-10:50 Status of PersistReco

Speaker
Rosen Matev

10:50-11:20 Stripping status

Speaker
Michael Thomas Alexander

11:20-11:40 Status of Yandex streaming optimisation

Speaker
Radoslav Neychev

11:40-12:10 Discussion on streaming

Subcontributions

Streams from the HLT

Speaker
Sascha Stahl

Streams from Tesla

Speaker
Sascha Stahl

Streams from the Stripping

Speaker
Michael Thomas Alexander

LHCbDirac operational constraints

Speaker
Christophe Haen

Discussion

12:30

14:00

-: Distributed computing

Session | **Location:** CERN, 222/R-001 | **Convener:** Federico Stagni

14:00-14:10 Intro

Speaker
Federico Stagni

14:10-14:30 Working Group productions: what's done so far

Speaker
Vladimir Romanovskiy

14:30-15:00 Working Group productions: mini tutorial

Speaker
Antonio Falabella

15:00-15:20 Working group productions: discussion + Q&A

15:20-15:40 Recent and upcoming developments in LHCbDIRAC

Speaker
Federico Stagni

15:40-16:00 Coffee break

16:00-16:20 Recent and upcoming developments for Ganga and LHCb

Speaker
Mark Smith

16:20-16:40 Distributed computing team: activities, and prospects

Speaker
Philippe Charpentier

17:00

Wednesday 17 May

09:00

-: Analysis preservation I

Session | Location: CERN, 222/R-001 | Convener: Sebastian Neubert

09:00–09:30 **Status of CERN analysis preservation project**

Speaker

Tibor Simko

09:30–09:55 **The RECAST project**

Speaker

Lukas Alexander Heinrich

09:55–10:25 **CERN cloud infrastructure**

Speakers

Jan van Eldik, Ricardo Brito Da Rocha

10:25–10:50 **Coffee break**

10:50–11:20 **LHCb analysis preservation roadmap**

Speaker

Sebastian Neubert

11:20–11:50 **Discussion session**

11:50–12:00 **Community Whitepaper**

Speaker

Michael David Sokoloff

12:00

14:00

-: Analysis preservation II

Session | Location: CERN, 222/R-001 | Convener: Sebastian Neubert

14:00–14:30 **Analysis pipeline toolkits**

Speaker

Chris Burr

14:30–15:00 **Data storage and access**

Speakers

Jakub Moscicki, Luca Mascetti, Massimo Lamanna

15:00–15:20 **Swan**

Speaker

Danilo Piparo

15:20–15:40 **Coffee break**

15:40–16:00 **Everware**

Speaker
Andrey Ustyuzhanin

16:00-16:20

Undergraduate Laboratory Experiment: Measuring Matter Antimatter Asymmetries at the Large Hadron Collider

Speaker
Chris Parkes

16:20-17:30 **Open space: Challenges in AP**

17:30-18:00 **POPPER a protocol for reproducible science (remote)**

Speakers
Ivo Jimenez, Carlos Maltzahn

18:15

Thursday 18 May

09:00

-: Run 3 Upgrade: core software framework
 Session | Location: CERN, 222/R-001 | Convener: Concezio Bozzi

09:00-09:40 Status of new framework and performance measurements
Speaker
 Sebastien Ponce

09:40-10:00 Outcome of Intel workshop
Speaker
 Paul Seyfert

10:00-10:20 Performance metrics in PR2
Speakers
 Christoph Hasse, Maciej Pawel Szymanski, Stefan Roiser

10:20-10:40 Status of conditions database
Speaker
 Benedikt Hegner

10:40-11:00 Detector description
Speaker
 Ben Couturier

11:00

14:00

-: Run 3 upgrade and developments for 2017 data taking: Status of sub-systems
 Session | Location: CERN, 222/R-001 | Convener: Concezio Bozzi

14:00-14:15 Tracking
Speakers
 Agnieszka Dziurda, Christoph Hasse

14:15-14:30 RICH
Speaker
 Christopher Rob Jones

14:30-14:45 CALO -- canceled

14:45-15:00 MUON
Speaker
 Marco Santimaria

15:00

15:00

-: Run 3 Upgrade: core software: The way ahead
 Session | Location: CERN, 222/R-001

15:00-15:25 Upgrade HLT

	Speaker Olli Lupton
	15:25-15:50 Merging master and future, defining a common sequence
	Speaker Sebastien Ponce
	15:50-16:15 Coffee Break
16:15	
16:15	-: Reserved for tutorials Session Location: CERN, 222/R-001
	16:15-17:00 Measuring code performance with valgrind, perf and vtune
	Speaker Monir Hadji
17:45	

Friday 19 May

09:00

-: Run 3 upgrade: distributed computing

Session | Location: CERN, 222/R-001 | Convener: Concezio Bozzi

09:00-09:20

HYDRA: a C++ framework for highly efficient computing on massively parallel architectures

Speaker

Dr Antonio Augusto Alves Junior

09:20-09:40

Migrating analysis software to the new framework

Speaker

Eduardo Rodrigues

09:40-10:00

Computing Resources in Run 3

Speaker

Concezio Bozzi

10:00-10:30

Distributed computing in Run 3 (following earlier discussion)

Speaker

Philippe Charpentier

10:30-11:00

Coffee Break

11:00-12:00

Preparing the TDR

12:15

14:00

-: Container & VM technologies

Session | Location: CERN, 222/R-001 | Convener: Andrew McNab

14:00-14:05

Introduction

Speaker

Andrew McNab

14:05-14:35

Experience with containers in LHCb services

Speaker

Christophe Haen

14:35-15:05

Singularity

Speaker

Ben Jones

15:05-15:35

SkyGrid at Yandex

Speaker

Alexander Baranov

15:35-16:05

Vac and Vcycle news

17:00

Speaker
Andrew McNab