CHEP '13 AMSTERDAM

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CHEP2013
Parallel programme

Infrastructure Sponsor:

JUNIPER NETWORKS

Monday 14 October

Plenary I: 09.00 - 10.30
Plenary II: 11.00 - 12.30
Lunch
Parallels I: 13.30 - 15.00

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
165	SCHWEMMER, Raine	The LHCb Data Acquisition during LHC Run
466	KOWALKOWSKI, Jim	The artdaq Data Acquisition Software Too
390	HANSON, Kael	The IceCube Neutrino Observatory DAQ and
503	NAGANO, Kunihiro	Algorithms, performance, and development
Track 2: Event Processing, analysis		
204	GAEDE, Frank-Dieter	Track Reconstruction at the ILC
502	PIILONEN, Leo	Track extrapolation and muon identificat
414	TAYLOR, Ian	Global Reconstruction for MICE
184	KRUTELYOV, Slava	The Role of Effective Event Reconstructi
Track 3A: Distributed Processing (Sites)		
8	DI GIROLAMO, Aless	Towards a Global Service Registry for th
239	Dr. VANIACHINE, Ale	Reliability Engineering analysis of ATLA
313	PANITKIN, Sergey	Evaluating Google Compute Engine with PR
394	Dr. LAURET, Jerome	User Centric Job Monitoring \u2013 a red
Track 3B: Distributed Processing (Experiments)		
140	CATTANEO, Marco	Recent and planned changes to the LHCb c
182	KUHR, Thomas	First Production with the Belle II Distr
246	CAMPANA, Simone	Evolution of the ATLAS Distributed Compu
102	GRANDI, Claudio	CMS Computing Model Evolution
Track 4: Data stores and databases		
29	RYBCZYNSKI, Tomas	ECFS: A decentralized, distributed and f
32	FILIPPIDIS, Christos	Forming an ad-hoc nearby storage framewo
83	ESPINAL CURULL, Xa	Disk storage at CERN: handling LHC data
355	Dr. WU, Wenjing	Fuzzy Pool Balance: An algorithm to achi
Track 5: Multi-core, GPUs, and software engineering		
353	KOPPER, Claudio	Monte Carlo Simulations of the IceCube D
3	CANAL, Philippe	High Energy Electromagnetic Particle Tra
422	LU, Qiming	Synergia-CUDA: GPU Accelerated Accelerat
428	Dr. ABUZAYYAD, Tar	The Telescope Array Fluorescence Detecto
Track 6: Infrastructure and Collaborative Tools		
274	PANITKIN, Sergey	ATLAS Cloud Computing R&D
77	FERNANDEZ ALBOR,	Nagios and Arduino integratition for mon
228	Mr. ZAYTSEV, Alexar	SynapSense Wireless Environmental Monito
14	Dr. WONG, Tony	Operating dedicated data centers - Is it

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Parallels II: 15.45 - 17.15

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
12	Mr. BALZER, Arnim	The H.E.S.S. Phase II Data Acquisition S
435	ZALESAK, Jaroslav	The NOvA Far Detector Data Acquisition S
468	BIERY, Kurt	The Data Acquisition System for DarkSide
429	Dr. KARABOWICZ, Ra	An Event Building scenario in the trigge
Track 2: Event Processing, analysis		
340	Prof. KISEL, Ivan	FLES: First Level Event Selection Packag
408	Dr. AL-TURANY, Moh	Extending the FairRoot framework to allo
327	LEBEDEV, Semen	Selected event reconstruction algorithms
331	LEWIS, Stefanie	Development of Bayesian analysis program
Track 3A: Distributed Processing (Sites)		
86	MEDRANO LLAMAS,	Commissioning the CERN IT Agile Infrastr
109	LINACRE, Jacob Thor	Opportunistic Computing only knocks once
37	Dr. NOWAK, Friederi	Evolution of interactive Analysis Facili
481	Dr. LIMOSANI, Antor	Implementation of grid Tier 2 and Tier 3
Track 3B: Distributed Processing (Experiments)		
105	Dr. PEREZ CALERO Y	CMS Multicore Scheduling Strategy
252	POTEKHIN, Maxim	Task Management in the New ATLAS Product
294	MAENO, Tadashi	Evolution of the ATLAS PanDA Workload Ma
436	Dr. KIRBY, Michael	The Fabric for Frontier Experiments Proj
Track 4: Data stores and databases		
68	Dr. VAN DER STER, D	Building an organic block storage servic
82	Dr. MOSCICKI, Jakub	Rethinking how storage services are deli
229	Dr. LU, Wang	Integration of S3-based cloud storage in
335	HEIKKILA, Seppo Sak	Cloud storage performance and first expe
Track 5: Multi-core, GPUs, and software engineering		
41	Dr. ELMER, Peter	A taxonomy of scientific software applic
461	KOWALKOWSKI, Jim	Improving robustness and computational e
61	LAVRIJSEN, Wim	Parallelization of Common HEP patterns w
339	LOHN, Stefan	Systematic profiling to monitor and spec
Track 6: Infrastructure and Collaborative Tools		
20	BARRING, Olof	Experience with procuring, deploying and
472	TRAYLEN, Steve	Fabric Management (R)Evolution at CERN
217	RODRIGUES MOREIR	Production Large Scale Cloud Infrastruct
207	FEDORKO, Ivan	Agile Infrastructure Monitoring

Parallels III: 17.25 - 18.10

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
21	Dr. OYA, Igor	The readout and control system of the mi
443	NINER, Evan	Synchronization of a the 14 kTon Neutrin
Track 2: Event Processing, analysis		
158	Dr. JONES, Christoph	Stitched Together: Transitioning CMS to
203	HEGNER, Benedikt	Introducing Concurrency in the Gaudi Dat
Track 3A: Distributed Processing (Sites)		
269	Dr. TUPPUTI, Salvato	Automating usability of ATLAS Distribute
191	Mr. CABELLOS, Luis	Direct exploitation of a top500 supercom
Track 3B: Distributed Processing (Experiments)		
40	SALICHOS, Michail	FTS3 \u2013 Robust, simplified and high-
425	VAN KLAVEREN, Bria	A modern web based data catalog for data
Track 4: Data stores and databases		
323	Dr. SHIERS, Jamie	DPHEP: From Study Group to Collaboration
216	HILDRETH, Mike	Data and Software Preservation for Open

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Parallels III: 17.25 - 18.10

ID	Speaker	Title
Track 5: Multi-core, GPUs, and software engineering		
475	COSTANZA, Pascal	Semi-automatic SIMD-efficient data layou
453	GHEATA, Andrei	Vectorizing the detector geometry to opt
Track 6: Infrastructure and Collaborative Tools		
121	Dr. COARASA PEREZ	The CMS openstack, opportunistic, overla
107	KREUZER, Peter	Opportunistic Resource Usage in CMS

Tuesday 15 October

Plenary V: 09.00 - 10.30
Plenary VI: 11.00 - 12.30
Lunch
Parallels IV: 13.30 - 15.00

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
430	LONARDO, Alessand	NaNet: a low-latency NIC enabling GPU-ba
87	ZEJDL, Petr	10Gbps TCP/IP streams from the FPGA for
18	MARCONI, umberto	A PCIe GEn3 based readout for the LHCb u
43	NOVY, Josef	FPGA based data acquisition system for C
Track 2: Event Processing, analysis		
291	MARSHALL, Zachary	Simulation of Pile-up in the ATLAS Exper
161	HILDRETH, Mike	Strategies for Modeling Extreme Luminosi
286	LANGENBERG, Rober	Preparing the Track Reconstruction in AT
153	CASTELLO, Roberto	Alignment and calibration of CMS detecto
Track 3A: Distributed Processing (Sites)		
31	MENDEZ MUNOZ, Vi	Integration of Cloud resources in the LH
60	LARSEN, Dag	Virtualised data production infrastructu
93	Dr. COLLING, David	Usage of the CMS Higher Level Trigger Fa
147	Dr. MENASCE, Dario	ArbyTrary, a cloud-based service for low
Track 3B: Distributed Processing (Experiments)		
28	JUNG, Christopher	Optimization of data life cycles
220	Mrs. LEVSHINA, Tany	Public Storage for the Open Science Grid
440	Dr. ILLINGWORTH, R	The Fermilab SAM data handling system at
434	Dr. LYON, Adam	The "Last Mile" of Data Handling - Fermi
Track 4: Data stores and databases		
146	HELLMICH, Martin P	DPM - efficient storage in diverse envir
376	Dr. MILLAR, Paul	dCache: Big Data storage for HEP communi
332	DONVITO, Giacinto	Testing of several distributed file-syst
363	PETZOLD, Andreas	A Preview of a Novel Architecture for La
Track 5: Multi-core, GPUs, and software engineering		
303	Dr. ELMER, Peter	Explorations of the viability of ARM and
244	SCHIFANO, Sebastian	Computing on Knights and Kepler Architec
173	HAUTH, Thomas	Parallel track reconstruction in CMS usi
67	ANDREASSEN, Rolf E	GooFit: A massively-parallel fitting fra
Track 6: Infrastructure and Collaborative Tools		
73	Dr. SCIABA, Andrea	Operating the Worldwide LHC Computing G
17	MEDRANO LLAMAS,	Testing as a Service with HammerCloud
13	TELESCA, Adriana	System performance monitoring of the AL
397	NOWAK, Andrzej	Beyond core count: a look at new mainstr

Tuesday 15 October
Parallels V: 15.45 - 17.15

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
35	FRANK, Markus	Deferred High Level Trigger in LHCb: A B
362	BOLD, Tomasz	The core trigger software framework of t
72	Dr. MOMMSEN, Rem	Prototype of a File-Based High-Level Tri
389	Mr. VANDE VYVRE, F	O2: a new combined online and offline >
Track 2: Event Processing, analysis		
419	URQUIJO, Phillip	The Belle II Physics Analysis Model
56	MICHEL, Mathias	A Common Partial Wave Anaylsis Framework
415	Dr. WHYNTIE, Tom	Simulation and analysis of the LUCID exp
208	NICULESCU, Mihai	Improvement of the ALICE Online Event Di
Track 3A: Distributed Processing (Sites)		
164	BOLAND, Lucien	Dynamic VM provisioning for Torque in a
185	LESTARIS, Georgios	CernVM Online and Cloud Gateway: a unifo
213	BLOMER, Jakob	Micro-CernVM: Slashing the Cost of Build
308	BERZANO, Dario	PROOF as a Service on the Cloud: a Virtu
Track 3B: Distributed Processing (Experiments)		
423	Dr. PATTON, Simon	Dayabay Offline processing chain: data t
354	DIAZ VELEZ, Juan Car	The IceProd (IceCube Production) Framewo
264	STEWART, Graeme A	ATLAS Job Transforms: A Data Driven Work
410	PETRAVICK, Donald	Data Processing for the Dark Energy Surv
Track 4: Data stores and databases		
103	MAGINI, Nicolo	The CMS Data Management System
262	GARONNE, Vincent	Rucio - The next generation of large sca
265	GARDNER JR, Robert	Data Federation Strategies for ATLAS Usi
94	Dr. RODRIGUEZ, Jorg	CMS Use of a Data Federation
Track 5: Multi-core, GPUs, and software engineering		
11	GYURJYAN, Vardan	Evaluation of the flow-based programming
224	NEUFELD, Niko	Measurements of the LHCb software stack
174	Mr. CIASCHINI, Vince	Evaluating Predictive Models of Software
175	BOTREL, Gautam	Collaboration platform @CERN : Self-serv
Track 6: Infrastructure and Collaborative Tools		
64	SMITH, Jason Alexan	The Effect of FlashCache and Bcache on I
154	CAMPANA, Simone	Deployment of a WLCG network monitoring
26	Dr. GARZOGLIO, Gab	Big Data over a 100G Network at Fermilab
30	GUTIERREZ RUEDA, I	Network architecture and IPv6 deployment

Parallels VI: 17.25 - 18.10

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
33	PIVANTI, Marcello	Implementation of a PC-based Level 0 Tri
480	PIILONEN, Leo	K-long and muon trigger in the Belle II
Track 2: Event Processing, analysis		
361	Dr. PAOLO, Saracco	An exact framework for uncertainty quant
454	VERKERKE, Wouter	RooFit and RooStats - a framework for ad
Track 3A: Distributed Processing (Sites)		
277	Dr. CABALLERO BEJA	OASIS: a data and software distribution
448	NORMAN, Andrew	Using the CVMFS for Distributing Data An
Track 3B: Distributed Processing (Experiments)		
256	VILUCCHI, Elisabetta	PROOF-based analysis on the ATLAS Grid f
113	Mr. SFILIGOI, Igor	Using ssh as portal - The CMS CRAB over
Track 4: Data stores and databases		
261	BARISITS, Martin	ATLAS Replica Management in Rucio: Repli
404	BARANOWSKI, Zbign	Sequential Data access with Oracle and H

Tuesday 15 October
Parallels VI: 17.25 - 18.10

ID	Speaker	Title
Track 5: Multi-core, GPUs, and software engineering		
194	RADEMAKERS, Fons	Using Cling/LLVM and C++11 for parametri
219	PIPARO, Danilo	Speeding up HEP experiments' software wi
Track 6: Infrastructure and Collaborative Tools		
92	Dr. WILDISH, Tony	Challenging data and workload management
245	Dr. MCKEE, Shawn	Application Performance Evaluation and R

Wednesday 16 October
Plenary V: 09.00 - 10.30
Plenary VI: 11.00 - 12.30

❌ **Gemeente Amsterdam**

Explore Amsterdam! Free canal cruise tickets offered by the City of Amsterdam (get yours at the registration desk) , join one of the tours, or enjoy the city sigts and museums on your own
alternatively: DPEP Workshop: 13.30 - 17.30

Thursday 17 October
Plenary VI: 09.00 - 10.30
Parallels VII: 11.00 - 12.30

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
211	TROCINO, Daniele	The CMS High Level Trigger
124	ALBRECHT, Johannes	Review of the LHCb Higher Level Trigger
426	NORMAN, Andrew	A First Look at the NOvA Far Detector Da
359	GARELLI, Nicoletta	The evolution of the Trigger and Data Ac
Track 2: Event Processing, analysis		
373	WIEDENMANN, Wer	A new Scheme for ATLAS Trigger Simulatio
155	GIAMMANCO, Andre	The Fast Simulation of the CMS detector
290	DEBENEDETTI, Chiara	Concepts for fast large scale Monte Carl
159	HILDRETH, Mike	CMS Full Simulation: Evolution Toward th
Track 3A: Distributed Processing (Sites)		
76	Mr. SFILIGOI, Igor	Cloud Bursting with Glideinwms: Means to
119	MCNAB, Andrew	Running jobs in the Vacuum
474	BAGNASCO, Stefano	Integrating multiple scientific computin
98	Dr. COARASA PEREZ,	The CMS openstack, opportunistic, overla
Track 3B: Distributed Processing (Experiments)		
99	GUTSCHE, Oliver	CMS Computing Operations During Run1
292	EHRENFELD, Wolfgar	Challenges of the ATLAS Monte Carlo prod
379	Dr. TSAREGORODTSE	DIRAC Distributed Computing Services
47	SFILIGOI, Igor	Minimizing draining waste through extend
Track 4: Data stores and databases		
53	SHAPOVAL, Illya	ARIADNE: a Tracking System for Relations
120	GIFFELS, Manuel	Data Bookkeeping Service 3 - Providing e
251	GALLAS, Elizabeth	Utility of collecting metadata to manage
260	FULACHIER, Jerome	Looking back on 10 years of the ATLAS Me
Track 5: Multi-core, GPUs, and software engineering		
212	NOWAK, Andrzej	Is the Intel Xeon Phi processor fit for
202	PIPARO, Danilo	Preparing HEP Software for Concurrency
387	Dr. LOPES, raul	A well-separated pairs decomposition alg
476	Dr. CARMINATI, Fede	The path toward HEP High Performance Com
Track 6: Infrastructure and Collaborative Tools		
279	VUKOTIC, Ilija	The True Cost of Data Access in ATLAS
318	Mr. DEMAR, Phil	WAN Data Movement Architectures at US-LH
320	Dr. WU, Wenji	Tool for Monitoring and Analysis of Larg
360	KELSEY, Dave	WLCG and IPv6 - the HEPiX IPv6 working g

Thursday 17 October
Parallels VIII: 13.30 - 15.00

ID	Speaker	Title
Track 1: Data Acquisition, trigger and control		
139	HOLZNER, Andre Geo	The new CMS DAQ system for LHC operation
447	HANLET, Pierrick	State Machine Operation of the MICE Cool
78	Ms. AMERIO, Silvia	Many-core applications to online track r
74	SAKULIN, Hannes	Automating the CMS DAQ
Track 2: Event Processing, analysis		
36	FRANK, Markus	DD4hep: A General Purpose Detector Descr
166	Prof. RIMOLDI, Adele	Geant4 studies of the CNAO facility syst
348	Dr. LYON, Adam	ArtG4: A generic framework for Geant4 si
177	Dr. COSMO, Gabriele	Geant4 - Towards major release 10
Track 3A: Distributed Processing (Sites)		
16	Dr. SUN, Gongxing	BESIII physical analysis on hadoop platf
106	Dr. KARAVAKIS, Edw	Processing of the WLCG monitoring data u
401	Mr. RUSSO, Stefano	Running a typical ROOT HEP analysis on H
333	DONVITO, Giacinto	Testing SLURM open source batch system f
Track 3B: Distributed Processing (Experiments)		
293	LAYCOCK, Paul Jame	Derived Physics Data Production in ATLAS
275	LEGGER, Federica	The ATLAS Distributed Analysis System
104	SPIGA, Daniele	The Common Analysis Framework Project
91	Mr. TAKASE, Wataru	Experience of a low-maintenance distribu
Track 4: Data stores and databases		
160	BOCKELMAN, Brian F	Optimizing High-Latency I/O in CMSSW
225	Dr. EBKE, Johannes	The Drillbit column store
289	Dr. CRANSHAW, Jack	The future of event-level information re
238	DIMITROV, Gancho	Next generation database relational solu
Track 5: Multi-core, GPUs, and software engineering		
242	LASSNIG, Mario	The ATLAS Data Management Software En
278	MANDRYSCH, Rocco	ATLAS Offline Software Performance Monit
223	Mr. EULISSE, Giulio	The Rise of the Build Infrastructure
180	Mr. VAN DOK, Denni	Experiences with moving to open source s
Track 6: Infrastructure and Collaborative Tools		
59	Mr. GONZALEZ LOPE	Indico 1.0
209	BARON, Thomas	Experience from the 1st Year running a M
344	Dr. PIA, Maria Grazia	Scholarly literature and the media: scie
424	Dr. HOFFMANN, Dirk	Setting up collaborative tools for a 100

Summaries of track 1, 2 and 4: 15.45 - 17.00

17.00 - 18.00: Panel discussion with Robert Cailliau, Rene Brun Federico Carminati and Peter Elmer, moderated by Oxana Smitnova

19.00 - 23.00 Dinner Cruise, leaving from PTA

Friday 18 October

Lightning Talks: 09.00 - 10.00
Summary of track 3: 15.45 - 17.00
Summaries of track 5 and 6: 15.45 - 17.00

CHEP 2015 Okinawa 11.45 - 12.00
Closing session 12.00 - 12.15

detailed programme: http://chep2013.org/indico