

**ACES 2009**

# **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Welcome and introduction

*Tuesday 3 March 2009 09:00 (15 minutes)*

**Session Classification:** Opening

Contribution ID: 1

Type: **not specified**

## **ATLAS Pixel**

*Tuesday 3 March 2009 09:15 (30 minutes)*

**Presenter:** GARCIA-SCIVERES, Maurice (LBNL)

**Session Classification:** System architecture & Requirements

Contribution ID: 2

Type: **not specified**

## **CMS Pixel**

*Tuesday 3 March 2009 09:45 (30 minutes)*

**Presenter:** Dr KAESTLI, Hans-Christian (PSI)

**Session Classification:** System architecture & Requirements

Contribution ID: 3

Type: **not specified**

## Discussion

*Tuesday 3 March 2009 10:15 (15 minutes)*

**Session Classification:** System architecture & Requirements

Contribution ID: 4

Type: **not specified**

## **ATLAS Strips**

*Tuesday 3 March 2009 10:50 (30 minutes)*

**Presenter:** FERRERE, Didier (Université de Genève)

**Session Classification:** System architecture & Requirements (cont.)

Contribution ID: 5

Type: **not specified**

## **CMS Strips**

*Tuesday 3 March 2009 11:20 (30 minutes)*

**Presenter:** GILL, Karl Aaron (CERN)

**Session Classification:** System architecture & Requirements (cont.)

Contribution ID: 6

Type: **not specified**

## Discussion

*Tuesday 3 March 2009 11:50 (25 minutes)*

**Session Classification:** System architecture & Requirements (cont.)

Contribution ID: 7

Type: **not specified**

## **DC-DC system architecture**

*Tuesday 3 March 2009 12:15 (20 minutes)*

**Presenter:** BLANCHOT, Georges (CERN)

**Session Classification:** Power distribution, low power design, power simulation

Contribution ID: 8

Type: **not specified**

## **Serial powering system architecture**

*Tuesday 3 March 2009 12:35 (20 minutes)*

**Presenter:** PHILLIPS, Peter (RAL PPD)

**Session Classification:** Power distribution, low power design, power simulation

Contribution ID: 9

Type: **not specified**

## **Buck DC-DC design and implementation**

*Tuesday 3 March 2009 14:00 (15 minutes)*

**Presenter:** MICHELIS, Stefano (CERN)

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: **10**

Type: **not specified**

## **Development and system Tests of DC-DC converters for the CMS SLHC Tracker**

*Tuesday 3 March 2009 14:15 (15 minutes)*

**Presenter:** KARPINSKI, Waclaw (I. Physikalisches Institut (B))

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: 11

Type: **not specified**

## **Embedded switched capacitors DC-DC**

*Tuesday 3 March 2009 14:30 (15 minutes)*

**Presenter:** Mr MEIER, Beat (ETHZ)

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: 12

Type: **not specified**

## **The serial Power interface chip**

*Tuesday 3 March 2009 14:45 (15 minutes)*

**Presenter:** TRIMPL, Marcel (Fermilab)

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: 13

Type: **not specified**

## **Serial power in ABCN (+FE - I4?)**

**Presenter:** DABROWSKI, Wladyslaw (AGH Univ. of Science & Technology Phys.&Appl.Comp.Sc.)

Contribution ID: 14

Type: **not specified**

## **Serial power circuitry in the ABC-Next and FE-I4 chips**

*Tuesday 3 March 2009 15:00 (20 minutes)*

**Presenter:** DABROWSKI, Wladyslaw (AGH Univ. of Science & Technology Phys.&Appl.Comp.Sc.)

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: **16**

Type: **not specified**

## **Discussion**

*Tuesday 3 March 2009 15:20 (20 minutes)*

**Session Classification:** Power distribution, low power design, power simulation (cont.)

Contribution ID: 17

Type: **not specified**

## **CMS Trigger Hardware: $\mu$ TCA & Xilinx V5**

*Tuesday 3 March 2009 16:05 (20 minutes)*

**Presenter:** HANSEN, Magnus (CERN)

**Session Classification:** Trigger

Contribution ID: **18**

Type: **not specified**

## **CMS L1 Track Trigger Overview**

*Tuesday 3 March 2009 16:45 (20 minutes)*

**Presenter:** MANNELLI, Marcello (CERN)

**Session Classification:** Trigger

Contribution ID: **19**

Type: **not specified**

## **CMS L1 Track Trigger Simulation**

*Tuesday 3 March 2009 17:05 (20 minutes)*

**Presenter:** PESARESI, Mark (Imperial College)

**Session Classification:** Trigger

Contribution ID: 20

Type: **not specified**

## **CMS use of tracking trigger in calorimeter & muon triggers**

*Tuesday 3 March 2009 17:25 (20 minutes)*

**Presenter:** Dr FOUNTAS, Costas (Imperial College)

**Session Classification:** Trigger

Contribution ID: 21

Type: **not specified**

## Tracking trigger in ATLAS ?

*Tuesday 3 March 2009 17:45 (20 minutes)*

**Presenter:** ROMANIOUK, Anatoli (Moscow Physical Engineering Institute (MePhI))

**Session Classification:** Trigger

Contribution ID: 22

Type: **not specified**

## Discussion

*Tuesday 3 March 2009 18:05 (20 minutes)*

**Session Classification:** Trigger

Contribution ID: 23

Type: **not specified**

## **Architecture and expected Physics performance of the FE-14 chip**

*Wednesday 4 March 2009 09:00 (15 minutes)*

**Presenter:** Dr BARBERO, Marlon (Physikalisches Institute, Universitaet Bonn)

**Session Classification:** Progress on front-end systems

Contribution ID: 24

Type: **not specified**

## **FE-14 design and prototype work**

*Wednesday 4 March 2009 09:15 (20 minutes)*

**Presenter:** Dr MEKKAOUI, Abderrezak (LBNL)

**Session Classification:** Progress on front-end systems

Contribution ID: 25

Type: **not specified**

## **Front-end design for the ATLAS microstrip detector at SLHC**

*Wednesday 4 March 2009 09:35 (25 minutes)*

**Presenter:** ANGHINOLFI, Francis (CERN)

**Session Classification:** Progress on front-end systems

Contribution ID: 26

Type: **not specified**

## **CMS Pixel**

*Wednesday 4 March 2009 10:00 (30 minutes)*

**Presenter:** Dr HORISBERGER, Roland (PSI)

**Session Classification:** Progress on front-end systems

Contribution ID: 27

Type: **not specified**

## Hybrid development in ATLAS

*Wednesday 4 March 2009 11:40 (20 minutes)*

**Presenter:** Dr AFFOLDER, Anthony (University of Liverpool)

**Session Classification:** Hybrids & Interconnect

Contribution ID: 28

Type: **not specified**

## **Flip-chip and packaging technologies**

*Wednesday 4 March 2009 12:00 (25 minutes)*

**Presenter:** EHRMANN, Oswin (Fraunhofer IZM)

**Session Classification:** Hybrids & Interconnect

Contribution ID: 29

Type: **not specified**

## Discussion

*Wednesday 4 March 2009 12:50 (10 minutes)*

**Session Classification:** Hybrids & Interconnect

Contribution ID: **30**

Type: **not specified**

## **Monolithic pixels**

*Wednesday 4 March 2009 13:45 (20 minutes)*

**Presenter:** SNOEYS, Walter (CERN)

**Session Classification:** Hybrids & Interconnect (cont.)

Contribution ID: **31**

Type: **not specified**

## **3D technology and correlated layers**

*Wednesday 4 March 2009 14:05 (20 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (Fermilab))

**Session Classification:** Hybrids & Interconnect (cont.)

Contribution ID: 32

Type: **not specified**

## Discussion

*Wednesday 4 March 2009 14:25 (20 minutes)*

**Session Classification:** Hybrids & Interconnect (cont.)

Contribution ID: 33

Type: **not specified**

## **Electrical transmission on cables at Gbit/s**

*Wednesday 4 March 2009 14:45 (20 minutes)*

**Presenter:** KOCIAN, Martin (SLAC)

**Session Classification:** Links

Contribution ID: 34

Type: **not specified**

## **Electrical transmission on flexible circuits**

*Wednesday 4 March 2009 15:05 (20 minutes)*

**Presenter:** FADEYEV, Vitaliy (UCSC)

**Session Classification:** Links

Contribution ID: 35

Type: **not specified**

## **Low current drivers and receivers**

*Wednesday 4 March 2009 15:25 (20 minutes)*

**Presenter:** ERDMANN, Wolfram (Paul Scherrer Institut (PSI))

**Session Classification:** Links

Contribution ID: **36**

Type: **not specified**

## **Discussion**

*Wednesday 4 March 2009 15:55 (15 minutes)*

**Session Classification:** [Links](#)

Contribution ID: 37

Type: **not specified**

## Versatile link

*Wednesday 4 March 2009 16:30 (30 minutes)*

**Presenter:** VASEY, Francois (CERN)

**Session Classification:** Links (cont.)

Contribution ID: **38**

Type: **not specified**

## **GBTx**

*Wednesday 4 March 2009 17:00 (30 minutes)*

**Presenter:** PAULO RODRIGUES SIMOES, Moreira (CERN)

**Session Classification:** Links (cont.)

Contribution ID: **39**

Type: **not specified**

## **Discussion**

*Wednesday 4 March 2009 17:30 (45 minutes)*

**Session Classification:** Links (cont.)

Contribution ID: 40

Type: **not specified**

## **Current capabilities and future developments for flex hybrids**

*Wednesday 4 March 2009 12:25 (25 minutes)*

**Presenter:** BOSE, Franck (GS Swiss PCB AG)

**Session Classification:** Hybrids & Interconnect

Contribution ID: 41

Type: **not specified**

## **CMS strips**

*Wednesday 4 March 2009 10:50 (30 minutes)*

**Presenter:** Mr RAYMOND, Mark (Imperial College)

**Session Classification:** Progress on front-end systems (cont.)

Contribution ID: 42

Type: **not specified**

## Discussion

*Wednesday 4 March 2009 11:20 (20 minutes)*

**Session Classification:** Progress on front-end systems (cont.)

Contribution ID: 43

Type: **not specified**

## **FF-LYNX: fast and flexible protocols and interfaces for electrical serial links**

*Wednesday 4 March 2009 15:45 (10 minutes)*

**Presenter:** MAGAZZU, Guido (INFN-Pisa)

**Session Classification:** Links

Contribution ID: 47

Type: **not specified**

## **High bandwidth generic DAQ research and application for LHC detector upgrade**

**Presenter:** HUFFER, Michael (Stanford Linear Accelerator Center (SLAC)-Unknown-Unknown)

Contribution ID: 51

Type: **not specified**

## **High bandwidth generic DAQ research and application for LHC detector upgrade**

*Tuesday 3 March 2009 16:25 (20 minutes)*

**Presenter:** HUFFER, Michael (Stanford Linear Accelerator Center (SLAC)-Unknown-Unknown)

**Session Classification:** Trigger

Contribution ID: 56

Type: **not specified**

## **What have we learned from the commercial buck converters?**

*Tuesday 3 March 2009 19:30 (20 minutes)*

**Presenter:** Dr DHAWAN, Satish (Yale University)

**Session Classification:** Poster & Dinner

Contribution ID: 57

Type: **not specified**

## Low Mass Optical Readout for Tracking

*Tuesday 3 March 2009 19:50 (20 minutes)*

**Presenters:** UNDERWOOD, David (Argonne National Laboratory (ANL)); VAN DER GRAAF, Harry (NIKHEF)

**Session Classification:** Poster & Dinner

Contribution ID: 58

Type: **not specified**

## **FF-LINX: Fast and Flexible protocols and interfaces for data transmission and distribution of timing, trigger and control signals**

*Tuesday 3 March 2009 20:10 (20 minutes)*

**Presenter:** MAGAZZU, Guido (INFN-Pisa)

**Session Classification:** Poster & Dinner

Contribution ID: 59

Type: **not specified**

## **On-chip DC-DC charge pump for ATLAS FEI4**

*Tuesday 3 March 2009 20:30 (20 minutes)*

**Presenters:** GNANI, Dario (LBNL); GARCIA-SCIVERES, Maurice (LBNL)

**Session Classification:** Poster & Dinner

Contribution ID: **60**

Type: **not specified**

## **Low-Cost Bump Bonding Project**

*Tuesday 3 March 2009 20:50 (20 minutes)*

**Presenter:** VAEHAENEN, Sami

**Session Classification:** Poster & Dinner

Contribution ID: 61

Type: **not specified**

## **Gossipo-3: a test of a 1-ns TDC-per-pixel and an integrated Temp-sensor in a 0.13um CMOS technology**

*Tuesday 3 March 2009 21:10 (20 minutes)*

**Presenter:** GROMOV, Vladimir (NIKHEF)

**Session Classification:** Poster & Dinner

Contribution ID: **62**

Type: **not specified**

## **SOS LOC**

*Tuesday 3 March 2009 21:30 (20 minutes)*

**Presenter:** YE, Jingbo (Southern Methodist University, Department of Physics)

**Session Classification:** Poster & Dinner

Contribution ID: 63

Type: **not specified**

## **Serial powering protection for Inner Detector modules**

*Tuesday 3 March 2009 21:50 (20 minutes)*

**Presenter:** HOLT, Richard Philip (Rutherford Appleton Laboratory)

**Session Classification:** Poster & Dinner