

RD51 Topical Workshop on FE electronics for gas detectors

Report of Contributions

Contribution ID: 74

Type: **not specified**

Introduction to Front-End Electronics for Particle Detectors

Tuesday, 15 June 2021 14:05 (30 minutes)

Presenters: LODDO, Flavio (Universita e INFN, Bari (IT)); LODDO, Flavio (INFN-BARI)

Session Classification: Lectures

Contribution ID: 75

Type: **not specified**

Strategies for Integration between FE Electronics and Detectors

Tuesday, 15 June 2021 14:35 (30 minutes)

Summary

Presenters: LIBERTI, Barbara (INFN e Universita Roma Tor Vergata (IT)); CARDARELLI, Roberto (INFN e Universita Roma Tor Vergata (IT))

Session Classification: Lectures

Contribution ID: 76

Type: **not specified**

Design of a Front-End ASIC for the New Small Wheel - Front-end design in CMOS

Tuesday, 15 June 2021 15:05 (30 minutes)

Presenters: DE GERONIMO, Gianluigi (University of Michigan, Stony Brook University, dgircuits.com); DE GERONIMO, Gianluigi

Session Classification: Lectures

Contribution ID: 77

Type: **not specified**

ROC chips for timing

Tuesday, 15 June 2021 15:35 (30 minutes)

Presenter: DE LA TAILLE, Christophe (OMEGA (FR))

Session Classification: Lectures

Contribution ID: 78

Type: **not specified**

Intro

Tuesday, 15 June 2021 16:20 (5 minutes)

Presenters: OLIVERI, Eraldo (CERN); COLAS, Paul (Université Paris-Saclay (FR))

Session Classification: Applications

Contribution ID: 79

Type: **not specified**

Welcome and Intro

Tuesday, 15 June 2021 14:00 (5 minutes)

Presenters: ROPELEWSKI, Leszek (CERN); DALLA TORRE, Silvia (Universita e INFN Trieste (IT))

Session Classification: Lectures

Contribution ID: **80**

Type: **not specified**

Time Projection Chambers

Tuesday, 15 June 2021 16:25 (25 minutes)

Presenters: COLAS, Paul (Université Paris-Saclay (FR)); COLAS, Paul (CEA - Centre d'Etudes de Saclay (FR)); COLAS, Paul (CEA/Irfu)

Session Classification: Applications

Contribution ID: **81**

Type: **not specified**

Nuclear Physics

Tuesday, 15 June 2021 16:50 (25 minutes)

Summary

Presenters: PANCIN, Julien (Grand Accelérateur National d'Ions Lourds (FR)); PANCIN, Julien

Session Classification: Applications

Contribution ID: **82**

Type: **not specified**

Drift Chamber / Cluster Counting

Tuesday, 15 June 2021 17:15 (25 minutes)

Presenters: GRANCAGNOLO, Francesco (Universita & INFN Lecce (IT)); GRANCAGNOLO, Francesco (INFN - Lecce)

Session Classification: Applications

Contribution ID: **83**

Type: **not specified**

Electronics for timing detectors: the CMS PPS timing system

Tuesday, 15 June 2021 17:40 (25 minutes)

Summary

Presenter: BOSSINI, Edoardo (Universita & INFN Pisa (IT))

Session Classification: Applications

Contribution ID: **84**

Type: **not specified**

Neutrons

Tuesday, 15 June 2021 18:05 (25 minutes)

Presenter: HALL-WILTON, Richard (ESS - European Spallation Source (SE))

Session Classification: Applications

Contribution ID: **85**

Type: **not specified**

Calorimetry

Wednesday, 16 June 2021 14:00 (25 minutes)

Presenters: LAKTINEH, Imad (Centre National de la Recherche Scientifique (FR)); LAKTINEH, Laktineh (Universite Claude Bernard-Lyon I (FR)); LAKTINEH, Laktineh (Universite Claude Bernard-Lyon I (FR))

Session Classification: Applications

Contribution ID: **86**

Type: **not specified**

Tracking and Triggering

Wednesday, 16 June 2021 14:25 (25 minutes)

Presenter: FELICI, Giulietto (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Applications

Contribution ID: **87**

Type: **not specified**

Intro

Wednesday, 16 June 2021 14:50 (5 minutes)

Presenter: MULLER, Hans (University of Bonn (DE))

Session Classification: Developments - Discrete Electronics

Contribution ID: **88**

Type: **not specified**

BIS78 RPC RO

Wednesday, 16 June 2021 14:55 (20 minutes)

Presenters: PIZZIMENTO, Luca (INFN e Universita Roma Tor Vergata (IT)); PIZZIMENTO, Luca

Session Classification: Developments - Discrete Electronics

Contribution ID: **89**

Type: **not specified**

APIC, a study case for discrete detector electronics

Wednesday, 16 June 2021 15:15 (20 minutes)

Summary

Presenter: MULLER, Hans (University of Bonn (DE))

Session Classification: Developments - Discrete Electronics

Contribution ID: **90**

Type: **not specified**

Fast Digitizer for Particle Physics

Wednesday, 16 June 2021 16:10 (15 minutes)

Presenter: MINAFRA, Nicola (The University of Kansas (US))

Session Classification: Developments - Digitizers

Contribution ID: **91**

Type: **not specified**

Architecture of the SAMPIC digitizer

Wednesday, 16 June 2021 16:25 (15 minutes)

Presenter: BRETON, Dominique Robert (Université Paris-Saclay (FR))

Session Classification: Developments - Digitizers

Contribution ID: 92

Type: **not specified**

Fast timing electronics R&D based on waveform digitization

Wednesday, 16 June 2021 16:40 (15 minutes)

Presenters: QIN, Jiajun (University of Science and Technology of China); QIN, Jiajun (University of Science and Technology of China (CN))

Session Classification: Developments - Digitizers

Contribution ID: 93

Type: **not specified**

Intro

Wednesday, 16 June 2021 16:55 (5 minutes)

Presenter: KAMINSKI, Jochen (University of Bonn (DE))

Session Classification: Developments - Pixels

Contribution ID: **94**

Type: **not specified**

TimePix and MediPix

Wednesday, 16 June 2021 17:00 (20 minutes)

Presenter: CAMPBELL, Michael (CERN)

Session Classification: Developments - Pixels

Contribution ID: 95

Type: **not specified**

Pixel Integration - GridPix

Wednesday, 16 June 2021 17:20 (20 minutes)

Summary

Presenter: KAMINSKI, Jochen (University of Bonn (DE))

Session Classification: Developments - Pixels

Contribution ID: **96**

Type: **not specified**

Pixel Integration - GEMPix

Wednesday, 16 June 2021 17:40 (20 minutes)

Presenter: MURTAS, Fabrizio (CERN & INFN)

Session Classification: Developments - Pixels

Contribution ID: 97

Type: **not specified**

Discussion (pixels)

Wednesday, 16 June 2021 18:15 (15 minutes)

Presenter: KAMINSKI, Jochen (University of Bonn (DE))

Session Classification: Developments - Pixels

Contribution ID: **98**

Type: **not specified**

Intro

Thursday, 17 June 2021 14:00 (30 minutes)

Presenter: MARTOIU, Sorin (Horia Hulubei National Institute of Physics and Nuclear Engine)

Session Classification: Developments - Linear Chips

Contribution ID: 99

Type: **not specified**

ROC (OMEGA) Family

Thursday, 17 June 2021 14:30 (10 minutes)

Presenters: CALLIER, Stephane (OMEGA - Ecole Polytechnique - CNRS/IN2P3); CALLIER, Stephane (OMEGA - IN2P3/CNRS)

Session Classification: Developments - Linear Chips

Contribution ID: **100**

Type: **not specified**

VMM

Thursday, 17 June 2021 15:40 (10 minutes)

Presenter: IAKOVIDIS, George (Brookhaven National Laboratory (US))

Session Classification: Developments - Linear Chips

Contribution ID: **101**

Type: **not specified**

nXYTER

Thursday, 17 June 2021 14:40 (10 minutes)

Summary

Presenters: KASIŃSKI, Krzysztof; KASINSKI, krzysztof (AGH)

Session Classification: Developments - Linear Chips

Contribution ID: **102**

Type: **not specified**

GEMROC (AGH)

Thursday, 17 June 2021 14:50 (10 minutes)

Presenter: FIUTOWSKI, Tomasz Andrzej (AGH University of Science and Technology (PL))

Session Classification: Developments - Linear Chips

Contribution ID: **103**

Type: **not specified**

TIGER

Thursday, 17 June 2021 15:00 (10 minutes)

Presenters: DA ROCHA ROLO, Manuel Dionisio (INFN); DA ROCHA ROLO, Manuel Dionisio (Universita e INFN Torino (IT))

Session Classification: Developments - Linear Chips

Contribution ID: **104**

Type: **not specified**

New ASIC (INFN TO)

Thursday, 17 June 2021 15:10 (10 minutes)

Presenters: DA ROCHA ROLO, Manuel Dionisio (INFN); DA ROCHA ROLO, Manuel Dionisio (Universita e INFN Torino (IT))

Session Classification: Developments - Linear Chips

Contribution ID: **105**

Type: **not specified**

VFAT

Thursday, 17 June 2021 15:20 (10 minutes)

Presenter: LICCIULLI, Francesco (Universita e INFN, Bari (IT))

Session Classification: Developments - Linear Chips

Contribution ID: **106**

Type: **not specified**

New ASIC (INFN Ba)

Thursday, 17 June 2021 15:30 (10 minutes)

Presenter: LICCIULLI, Francesco (Universita e INFN, Bari (IT))

Session Classification: Developments - Linear Chips

Contribution ID: **107**

Type: **not specified**

AFTER/AGET

Thursday, 17 June 2021 16:10 (10 minutes)

Presenter: BARON, Pascal (Université Paris-Saclay (FR))

Session Classification: Developments - Linear Chips

Contribution ID: **108**

Type: **not specified**

SAMPA

Thursday, 17 June 2021 16:20 (10 minutes)

Presenter: BREGANT, Marco (Universidade de Sao Paulo (BR))

Session Classification: Developments - Linear Chips

Contribution ID: **109**

Type: **not specified**

New ASIC (TPC)

Thursday, 17 June 2021 16:30 (10 minutes)

Presenters: NEYRET, Damien (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR)); NEYRET, Damien (Université Paris-Saclay (FR))

Session Classification: Developments - Linear Chips

Contribution ID: **110**

Type: **not specified**

WASA

Thursday, 17 June 2021 16:40 (10 minutes)

Presenters: DENG, Zhi (Tsinghua University (CN)); DENG, Zhi (Tsinghua University)

Session Classification: Developments - Linear Chips

Contribution ID: **111**

Type: **not specified**

PADI

Thursday, 17 June 2021 16:50 (10 minutes)

Presenter: CIOBANU, Mircea Iuliu (Institute of Atomic Physics)

Session Classification: Developments - Linear Chips

Contribution ID: **112**

Type: **not specified**

PicoTDC

Thursday, 17 June 2021 17:10 (30 minutes)

Presenter: CHRISTIANSEN, Jorgen (CERN)

Session Classification: Developments - TDC

Contribution ID: **113**

Type: **not specified**

GEMINI

Thursday, 17 June 2021 17:00 (10 minutes)

Summary

Presenter: ANDREA, abba

Session Classification: Developments - Linear Chips

Contribution ID: 121

Type: **not specified**

Pixel chip development for tracking type gaseous detectors

Wednesday, 16 June 2021 18:00 (15 minutes)

Presenter: ROMANIOUK, Anatoli (National Research Nuclear University MEPHI (RU))

Session Classification: Developments - Pixels