

RD51 Mini-Week

Report of Contributions

Contribution ID: 234

Type: **not specified**

ESS VMM3a and SRS activities

Monday 15 February 2021 14:20 (20 minutes)

Presenter: PFEIFFER, Dorothea (CERN)

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 235

Type: **not specified**

Detector Electronics at ESS for neutron scattering

Monday 15 February 2021 14:40 (20 minutes)

Presenters: HALL-WILTON, Richard (E); HALL-WILTON, Richard (ESS - European Spallation Source (SE))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 236

Type: **not specified**

Optical Readout of the ARIADNE LArTPC Using a Timepix3-Based Camera

Tuesday 16 February 2021 10:05 (25 minutes)

Summary

Presenter: ROBERTS, Adam (University of Liverpool (GB))

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 237

Type: **not specified**

Update on production and stability of ATLAS/NSW Micromegas chambers

Tuesday 16 February 2021 09:15 (25 minutes)

Presenter: MANCINI, Giada (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 238

Type: **not specified**

New results on the charge spreading with capacitive coupling

Tuesday 16 February 2021 11:35 (25 minutes)

Presenters: GNANVO, Kondo (Florida Institute of Technology, Melbourne, FL, USA); GNANVO, Kondo (University of Virginia (US))

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 239

Type: **not specified**

Self-calibrated drift velocity in a GEM-based TPC system

Wednesday 17 February 2021 09:00 (20 minutes)

Recently a TPC system has been constructed with double GEM readout for beam monitoring purposes in high-Z mixed nuclear beam. If applied in a “twin” or “tandem” configuration, then the off-time background can be drastically reduced. However, if the detectors are placed such that the drift velocities are perpendicular, then the system drift-velocity calibration becomes possible online without external timing or trigger.

Presenters: VARGA, Dezso (Wigner Research Centre for Physics (Wigner RCP) (HU)); GALGOCZI, Gabor (Hungarian Academy of Sciences (HU)); GERGO, Hamar (Wigner)

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 240

Type: **not specified**

NEXT: charge-integrating SiPM readout with SRS, status und future

Monday 15 February 2021 15:00 (20 minutes)

Presenters: TOLEDO ALARCON, Jose Francisco; TOLEDO ALARCON, Jose Francisco (Valencia Polytechnic University (ES))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 241

Type: **not specified**

Update on small-pad Micromegas developments

Presenter: IODICE, Mauro (INFN - Sezione di Roma Tre)

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 242

Type: **not specified**

Measurement of the Noise of a VMM-Hybrid

Monday 15 February 2021 15:20 (30 minutes)

Presenters: TERZIMPASOGLOU, Emorfili (Uni-Bonn HISKP); LUPBERGER, Michael (University of Bonn (DE)); LUPBERGER, Michael (University of Bonn)

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 243

Type: **not specified**

Report from Working Group 5.1

Monday 15 February 2021 16:20 (20 minutes)

Presenter: SCHARENBERG, Lucian (CERN, University of Bonn (DE))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 244

Type: **not specified**

VMM production test and yield

Monday 15 February 2021 16:40 (20 minutes)

Presenter: RUSU, Alexandru (OAK RIDGE National Laboratory (US))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 245

Type: **not specified**

Discussion topics

Monday 15 February 2021 17:00 (1 hour)

Presenters: MULLER, Hans; KAMINSKI, Jochen (University of Bonn (DE))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 246

Type: **not specified**

Ion Animations in a Triple GEM detector

Thursday 18 February 2021 11:05 (20 minutes)

Presenter: BAL, Aritra (Indian Institute of Technology, Kharagpur, India)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 247

Type: **not specified**

Garfield++ Parallelization

Thursday 18 February 2021 09:00 (25 minutes)

Presenters: NIKOLOPOULOS, Konstantinos (University of Birmingham (GB)); SLATER, Mark (Birmingham University); SLATER, Mark William (University of Birmingham (GB))

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 248

Type: **not specified**

Numerical evaluation of a muon tomography system for imaging defects in concrete structures.

Thursday 18 February 2021 09:45 (20 minutes)

Presenter: TRIPATHY, SRIDHAR (SAHA INSTITUTE OF NUCLEAR PHYSICS)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 249

Type: **not specified**

Hydrodynamic Approach to Simulate Avalanche and Streamer in Gaseous Detectors

Thursday 18 February 2021 09:25 (20 minutes)

Presenter: DATTA, Jaydeep

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 250

Type: **not specified**

Recent advances in dynamic effect calculations in OuroborosBEM

Thursday 18 February 2021 11:25 (20 minutes)

Summary

Presenter: SALVADOR, Samuel (CNRS-in2p3 LPC Caen)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 251

Type: **not specified**

Energy Transfer Model for Ne-CO₂ and Ne-N₂ Mixtures; news for ATLAS mixtures (Ar-CO₂-iC₄H₁₀)

Thursday 18 February 2021 10:05 (25 minutes)

Summary

Presenters: SAHIN, Ozkan (Uludag University); SAHIN, Ozkan (Uludag University (TR)); SAHIN, ozkan (Uludag University)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 252

Type: **not specified**

A fast simulation method for THGEM charging-up study

Thursday 18 February 2021 10:45 (20 minutes)

Summary

Presenters: GUSONG, Guofeng (USTC); GUSONG, Guofeng (USTC)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 253

Type: **not specified**

Assembly and gain uniformity measurements of the new large area Picosec detector

Tuesday 16 February 2021 09:40 (25 minutes)

Presenter: UTROBICIC, Antonija (CERN)

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 254

Type: **not specified**

Small Pad Micromegas

Wednesday 17 February 2021 11:10 (20 minutes)

Presenter: IODICE, Mauro (INFN - Sezione di Roma Tre)

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 255

Type: **not specified**

Current status of preparations for the MIGDAL experiment

Wednesday 17 February 2021 10:00 (20 minutes)

Summary

Presenter: MARLEY, Timothy David (Science and Technology Facilities Council STFC (GB))

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 256

Type: **not specified**

Optical readout of glass Micromegas: $\bar{\nu}$ neutron imaging and DLC-coated meshes

Wednesday 17 February 2021 11:30 (20 minutes)

Summary

Co-authors: POLLACCO, Emanuel (CEA); Dr PAPAEVANGELOU, Thomas (Irfu, CEA, Université Paris-Saclay)

Presenter: BRUNBAUER, Florian Maximilian (CERN, Vienna University of Technology (AT))

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 257

Type: **not specified**

An update on the modeling of signal formation in detectors with resistive elements

Thursday 18 February 2021 11:45 (20 minutes)

Presenter: JANSSENS, Djunes (Vrije Universiteit Brussel (BE))

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 258

Type: **not specified**

Online noise measurement tool for VMM

Monday 15 February 2021 15:50 (10 minutes)

Presenter: SCHARENBERG, Lucian (CERN, University of Bonn (DE))

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 259

Type: **not specified**

the TOTEM GEM tracker readout

Monday 15 February 2021 14:00 (20 minutes)

The TOTEM Collaboration is constructing a GEM-based reference tracker to be located permanently at CERN-SPS H8 beamline. Its software layer is relying on a new DAQ system (interfaced to EUDAQ2) for the SRS-APV25 readout electronics. This talk will report the status of its development and aims at requesting feedback on any missing parts.

Presenters: FORTHOMME, Laurent (Helsinki Institute of Physics (FI)); FORTHOMME, Laurent

Session Classification: WG5 - Electronics for MPGD

Contribution ID: 260

Type: **not specified**

Status of the ALICE TPC upgrade

Tuesday 16 February 2021 10:45 (25 minutes)

Presenter: GARABATOS CUADRADO, Chilo (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 261

Type: **not specified**

Transport properties of gas mixtures for future experiments

Wednesday 17 February 2021 09:20 (20 minutes)

Presenter: SHARMA, Archana (CERN)

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 262

Type: **not specified**

COMPASS Upgrade - mm and new DAQ (TIGER)

Friday 19 February 2021 09:00 (15 minutes)

Presenter: ALEXEEV, Maxim (Universita e INFN Torino (IT))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 263

Type: **not specified**

COMPASS++/AMBER upgrade

Friday 19 February 2021 09:15 (15 minutes)

Presenter: LUPBERGER, Michael (University of Bonn (DE))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 264

Type: **not specified**

RPWELL

Friday 19 February 2021 09:30 (15 minutes)

Summary

Presenters: MOLERI, Luca (Technion- Israel Institute of Technology (IL)); BRESSLER, Shikma (Weizmann Institute of Science (IL))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 265

Type: **not specified**

IDEA, uRWELL

Friday 19 February 2021 09:45 (15 minutes)

Presenter: BENCIVENNI, Giovanni (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 266

Type: **not specified**

Towards RPWELL-based DHCAL

Wednesday 17 February 2021 10:50 (20 minutes)

Summary

Presenter: SHAKED RENOUS, Dan (Weizmann Institute of Science (IL))

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 267

Type: **not specified**

BESIII

Friday 19 February 2021 10:00 (15 minutes)

Summary

Presenters: MEZZADRI, Giulio; MEZZADRI, Giulio (Universita di Ferrara & INFN (IT))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 268

Type: **not specified**

FTM, High Resolution GEM

Friday 19 February 2021 10:15 (15 minutes)

Presenter: VERWILLIGEN, Piet (Universita e INFN, Bari (IT))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: **269**

Type: **not specified**

Coffee Break

Friday 19 February 2021 10:35 (15 minutes)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 270

Type: **not specified**

CMS GEM

Friday 19 February 2021 10:50 (15 minutes)

Presenter: VERWILLIGEN, Piet (Universita e INFN, Bari (IT))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 271

Type: **not specified**

Small Pad Micromegas

Friday 19 February 2021 11:05 (15 minutes)

Summary

Presenter: IODICE, Mauro (INFN - Sezione di Roma Tre)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 272

Type: **not specified**

PICOSEC

Friday 19 February 2021 11:20 (15 minutes)

Presenter: UTROBICIC, Antonija (CERN)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 273

Type: **not specified**

VMM3a in a GEM-TPC in twin configuration

Friday 19 February 2021 11:35 (15 minutes)

Summary

Presenter: GARCIA FUENTES, Francisco Ignacio (Helsinki Institute of Physics (FI))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 274

Type: **not specified**

Tandem GEM TPC

Friday 19 February 2021 11:50 (15 minutes)

Summary

Presenters: VARGA, Dezso (Wigner Research Centre for Physics (Wigner RCP) (HU)); GERGO, Hamar (Wigner)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 275

Type: **not specified**

Commissioning of Alu Micromegas and TPC for Proton Computed Tomography

Friday 19 February 2021 12:05 (15 minutes)

Presenters: BORTFELDT, Jona (CERN); BORTFELDT, Jonathan Frederik (Fakultaet fuer Physik-Ludwig-Maximilians-Univ. Muenchen)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 276

Type: **not specified**

TPC-TimePix

Presenter: VAN DER GRAAF, Harry (Nikhef National institute for subatomic physics (NL))

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 277

Type: **not specified**

General news and Info

Friday 19 February 2021 12:20 (5 minutes)

Presenters: TSIPOLITIS, Yorgos (NTUA); TSIPOLITIS, Yorgos (National Technical Univ. of Athens (GR)); OLIVERI, Eraldo (CERN)

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: 278

Type: **not specified**

Future ideas based on capacitive sharing effect

Presenter: GNANVO, Kondo (Florida Institute of Technology, Melbourne, FL, USA)

Session Classification: WG6 - Production and Industrialization

Contribution ID: 279

Type: **not specified**

Study on the effect of humidity on FR4 swelling

Thursday 18 February 2021 15:00 (20 minutes)

Summary

Presenter: DUBININ, Filipp (Russian Academy of Sciences (RU))

Session Classification: WG6 - Production and Industrialization

Contribution ID: **280**

Type: **not specified**

DLC common project summary

Thursday 18 February 2021 15:20 (20 minutes)

Summary

Presenter: GIOVANNETTI, Matteo (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: WG6 - Production and Industrialization

Contribution ID: **281**

Type: **not specified**

News about the "DLC machine" at CERN

Thursday 18 February 2021 16:00 (20 minutes)

Presenter: DE OLIVEIRA, Rui (CERN)

Session Classification: WG6 - Production and Industrialization

Contribution ID: 282

Type: **not specified**

Precautions to start a Micromegas detector safely

Thursday 18 February 2021 16:20 (20 minutes)

Presenter: DE OLIVEIRA, Rui (CERN)

Session Classification: WG6 - Production and Industrialization

Contribution ID: 283

Type: **not specified**

Fluorine impurities in Triple-GEM detectors with CF₄-based gas mixture

Wednesday 17 February 2021 09:40 (20 minutes)

Presenter: CORBETTA, Mara (Universite Claude Bernard Lyon I (FR))

Session Classification: WG2 - Detector Physics and Performance

Contribution ID: 284

Type: **not specified**

On the way to the first full scale prototype of the MAGIX open field-cage TPC

Tuesday 16 February 2021 11:10 (25 minutes)

Summary

Presenter: GULKER, Jakob (Johannes Gutenberg Universitaet Mainz (DE))

Session Classification: WG1 - Technological Aspects and Development of New Detector Structures

Contribution ID: 285

Type: **not specified**

Discussion on rP for ATLAS Mixture

Presenters: SAHIN, Ozkan (Uludag University (TR)); SAHIN, Ozkan (Uludag University); IENGO, Paolo (CERN); IENGO, Paolo (LAPP); SAHIN, ozkan (Uludag University)

Session Classification: WG4 - Modelling of Physics Processes and Software Tools

Contribution ID: 286

Type: **not specified**

News from MB & ECFA Detector R&D Roadmap

Friday 19 February 2021 10:30 (5 minutes)

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

Session Classification: WG7 - Common Test Facilities - preliminary

Contribution ID: **287**

Type: **not specified**

RD51-WG7 subscription

Contribution ID: **288**

Type: **not specified**

RD51-WG7 subscription

Friday 19 February 2021 12:25 (1 minute)

Session Classification: WG7 - Common Test Facilities - preliminary