

# **RD51 Collaboration Meeting**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Development of the GEM-TPC X-ray polarimeter with the Scalable Readout System**

*Friday, 16 October 2015 10:00 (20 minutes)*

**Presenter:** Dr KITAGUCHI, Takao (RIKEN)

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 1

Type: **not specified**

# HARPO, TPC for gamma-ray polarimetry

*Friday, 16 October 2015 10:40 (20 minutes)*

**Presenter:** GROS, Philippe (Centre National de la Recherche Scientifique (FR))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 2

Type: **not specified**

## **Polarimeter Detector development using GEM technology for Proton EDM Measurement**

*Friday, 16 October 2015 10:20 (20 minutes)*

**Presenter:** PARK, Seongtae (University of Texas at Arlington)

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 3

Type: **not specified**

## **An autonomous system for muon densitometry**

*Friday, 16 October 2015 11:20 (20 minutes)*

**Presenter:** BOUTEILLE, Simon (Ecole Polytechnique (FR))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 4

Type: **not specified**

## **Candidate eco-friendly gas mixtures for MPGDs**

**Presenter:** SAVIANO, Giovanna (Istituto Nazionale Fisica Nucleare Frascati (IT))

Contribution ID: 5

Type: **not specified**

## **Gas circulation and purification in a sealed TPC for the HARPO experiment**

*Friday, 16 October 2015 14:15 (20 minutes)*

**Presenter:** GROS, Philippe (Centre National de la Recherche Scientifique (FR))

**Session Classification:** WG2 - Detector Physics and Performance

Contribution ID: 6

Type: **not specified**

## **Studies on Gas Electron Multiplier (GEM) modules of a Large Prototype TPC for the ILC**

*Friday, 16 October 2015 14:35 (20 minutes)*

**Presenter:** VAUTH, Annika (Deutsches Elektronen-Synchrotron (DESY))

**Session Classification:** WG2 - Detector Physics and Performance



Contribution ID: 7

Type: **not specified**

## **Low consumption micromegas for muon tomography**

**Presenter:** BOUTEILLE, Simon (Ecole Polytechnique (FR))

Contribution ID: 8

Type: **not specified**

## **Tests of a new anode resistive coating for a Micromegas TPC**

*Friday, 16 October 2015 14:55 (20 minutes)*

**Presenter:** COLAS, Paul (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

**Session Classification:** WG2 - Detector Physics and Performance

Contribution ID: 9

Type: **not specified**

## **Study of spatial resolution of low-material GEM tracking detectors**

*Friday, 16 October 2015 15:15 (20 minutes)*

**Presenter:** SHEKHTMAN, Lev (Budker Institute of Nuclear Physics (RU))

**Session Classification:** WG2 - Detector Physics and Performance

Contribution ID: **10**

Type: **not specified**

## **Characterization of multilayer Thick-GEM geometries as 10B converters aiming thermal neutron detection**

*Friday, 16 October 2015 15:35 (20 minutes)*

**Presenter:** NATAL DA LUZ, Hugo (Universidade de São Paulo (BR))

**Session Classification:** WG2 - Detector Physics and Performance

Contribution ID: 11

Type: **not specified**

# The development of MPGD-based detectors of single photons

*Friday, 16 October 2015 15:55 (20 minutes)*

**Presenter:** FERNANDES DOS SANTOS, Carlos Alexandre (Universita e INFN (IT))

**Session Classification:** WG2 - Detector Physics and Performance

Contribution ID: 12

Type: **not specified**

## **A new transparent XY-MicroMegas neutron beam profiler**

*Friday, 16 October 2015 12:00 (20 minutes)*

**Presenters:** BERTHOUMIEUX, Eric (DAPNIA); BERTHOUMIEUX, Eric (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 13

Type: **not specified**

## **Quality assurance of the GEM foils for the ALICE TPC read-out chambers upgrade**

*Friday, 16 October 2015 16:40 (20 minutes)*

**Primary author:** BRUCKEN, Jens Erik (Helsinki Institute of Physics (FI))

**Presenter:** BRUCKEN, Jens Erik (Helsinki Institute of Physics (FI))

**Session Classification:** WG6 - Production and Industrialization

Contribution ID: 14

Type: **not specified**

## **Innovative Micromegas manufacturing with micro fabrication technics and use of graphene**

**Presenter:** VASSOU, Chrysoula



Contribution ID: 15

Type: **not specified**

## **GEM foils production & commercial GEM based detection system**

*Friday, 16 October 2015 17:00 (20 minutes)*

**Presenter:** BIELOWKA, Piotr (TTA Techtra)

**Session Classification:** WG6 - Production and Industrialization

Contribution ID: 16

Type: **not specified**

## **LBNO-DEMO (WA105): a large demonstrator of the Liquid Argon double phase TPC**

*Friday, 16 October 2015 12:20 (20 minutes)*

**Presenter:** LUX, Thorsten (Universitat Autònoma de Barcelona (ES))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 17

Type: **not specified**

## **Electron losses during drift and mesh transit in an ATLAS-like MicroMega**

**Presenter:** KUGER, Fabian (Bayerische Julius Max. Universitaet Wuerzburg (DE))

Contribution ID: **18**

Type: **not specified**

## **Electric properties of polyimide**

**Presenter:** KALKAN, Yalcin (Uludag University (TR))

Contribution ID: 20

Type: **not specified**

## **Numerical Studies on Time Resolution of Micro-Pattern Gaseous Detectors**

*Saturday, 17 October 2015 09:00 (25 minutes)*

**Presenter:** BHATTACHARYA, Purba (Saha Institute of Nuclear Physics (IN))

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

Contribution ID: 21

Type: **not specified**

## Simulation of the CMS GEM System

*Friday, 16 October 2015 12:40 (20 minutes)*

**Presenter:** SHARMA, Archie (University of Wisconsin (US))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 22

Type: **not specified**

## **Speeding Up and Parallelizing the Garfield++**

*Saturday, 17 October 2015 09:25 (25 minutes)*

**Presenter:** CASTANEDA HERNANDEZ, Alfredo Martin (Texas A & M University (US))

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

Contribution ID: 23

Type: **not specified**

## **Development of a TPC detector module equipped with a positive-ion gating device using high electron transmission GEM-type foils for the ILD detector at the ILC**

**Presenter:** LUX, Thorsten (Universitat Autònoma de Barcelona (ES))



Contribution ID: 24

Type: **not specified**

## **The M-Cube project: Large area Micromegas for homeland security**

*Friday, 16 October 2015 11:40 (20 minutes)*

**Presenter:** PROCUREUR, Sebastien (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

**Session Classification:** WG1 - New Structures and Technologies

Contribution ID: 25

Type: **not specified**

## Ion transport in N<sub>2</sub>-CO<sub>2</sub>

*Saturday, 17 October 2015 09:50 (25 minutes)*

**Presenters:** CORTEZ, André (LIP-Coimbra); ENCARNAÇÃO, Pedro (LIP Coimbra)

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

Contribution ID: 26

Type: **not specified**

## CO<sub>2</sub>+(CO<sub>2</sub>)<sub>2</sub> clusters observed

*Saturday, 17 October 2015 10:15 (25 minutes)*

**Presenter:** CORTEZ, André (LIP-Coimbra)

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

Contribution ID: 27

Type: **not specified**

## **WG7 - RD51 2015 Test Beam**

*Saturday, 17 October 2015 11:00 (20 minutes)*

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

**Session Classification:** WG7 - Common Test Facilities