## Triggering Discoveries in High Energy Physics II



# **Report of Contributions**

Opening address

Contribution ID: 1

Type: not specified

## **Opening address**

Welcome

Contribution ID: 2

Type: not specified

#### Welcome

Monday 29 January 2018 14:00 (30 minutes)

**Presenter:** FERNANDEZ TELLEZ, Arturo (Autonomous University of Puebla (MX))

Session Classification: Opening session

Introduction to LHC physics

Contribution ID: 3

Type: not specified

#### **Introduction to LHC physics**

Monday 29 January 2018 14:30 (50 minutes)

**Presenter:** EVANS, David (University of Birmingham (GB)) **Session Classification:** Opening session

Introduction to triggering

Contribution ID: 4

Type: not specified

#### Introduction to triggering

Monday 29 January 2018 15:40 (50 minutes)

**Presenter:** LIETAVA, Roman (University of Birmingham (GB)) **Session Classification:** Opening session

Introduction to LHC detectors

Contribution ID: 5

Type: not specified

#### **Introduction to LHC detectors**

Session Classification: Opening session

ALICE physics overview

Contribution ID: 6

Type: not specified

#### ALICE physics overview

Tuesday 30 January 2018 09:00 (45 minutes)

**Presenter:** CUAUTLE FLORES, Eleazar (Universidad Nacional Autonoma (MX)) **Session Classification:** Physics motivation, trigger and results

Overview of ATLAS results and p  $\,\cdots$ 

Contribution ID: 7

Type: not specified

## Overview of ATLAS results and prospects for physics at the HL-LHC

Tuesday 30 January 2018 09:45 (45 minutes)

**Presenter:** GORINI, Edoardo (INFN Lecce e Universita del Salento (IT)) **Session Classification:** Physics motivation, trigger and results

Physics overview from CMS

Contribution ID: 8

Type: not specified

#### Physics overview from CMS

Tuesday 30 January 2018 10:50 (45 minutes)

**Presenter:** SRIMANOBHAS, Phat (Chulalongkorn University (TH)) **Session Classification:** Physics motivation, trigger and results

LHCb physics overview

Contribution ID: 9

Type: not specified

#### LHCb physics overview

Tuesday 30 January 2018 11:35 (45 minutes)

**Presenter:** VAGNONI, Vincenzo (CERN and INFN Bologna) **Session Classification:** Physics motivation, trigger and results

Overview of NA62 Physics

Contribution ID: 10

Type: not specified

#### **Overview of NA62 Physics**

**Presenter:** ANZIVINO, Giuseppina (Universita e INFN, Perugia (IT)) **Session Classification:** Physics motivation, trigger and results

Pierre Auger Observatory

Contribution ID: 11

Type: not specified

#### **Pierre Auger Observatory**

Tuesday 30 January 2018 16:00 (45 minutes)

**Presenters:** NELLEN, Lukas (Universidad Nacional Autonoma (MX)); NELLEN, Lukas (I. DE CIEN-CIAS NUCLEARES, UNAM)

Session Classification: Physics motivation, trigger and results

The High-Altitude Water Cheren …

Contribution ID: 12

Type: not specified

# The High-Altitude Water Cherenkov gamma ray observatory

Monday 29 January 2018 16:30 (45 minutes)

**Presenter:** AGUILAR, Ibrahim Torres **Session Classification:** Opening session

Extreme Universe Space Observa

Contribution ID: 13

Type: not specified

#### **Extreme Universe Space Observatory (EUSO)**

*Tuesday 30 January 2018 16:45 (45 minutes)* 

**Presenter:** MEDINA TANCO, Gustavo (Instituto de Ciencias Nucleares - UNAM) **Session Classification:** Physics motivation, trigger and results

CBM overview

Contribution ID: 14

Type: not specified

#### **CBM overview**

Wednesday 31 January 2018 11:35 (45 minutes)

**Presenter:** FRIESE, Volker (GSI - Helmholtzzentrum fur Schwerionenforschung GmbH (DE)) **Session Classification:** Current trigger systems

ALICE trigger in run1/run2

Contribution ID: 15

Type: not specified

### ALICE trigger in run1/run2

Wednesday 31 January 2018 09:00 (45 minutes)

**Presenter:** JUSKO, Anton (University of Birmingham (GB)) **Session Classification:** Current trigger systems

The ATLAS trigger system

Contribution ID: 16

Type: not specified

## The ATLAS trigger system

Wednesday 31 January 2018 09:45 (45 minutes)

**Presenter:** OWEN, Rhys Edward (University of Birmingham (GB)) **Session Classification:** Current trigger systems

The current CMS trigger

Contribution ID: 17

Type: not specified

#### The current CMS trigger

Wednesday 31 January 2018 10:50 (45 minutes)

**Presenter:** BORTIGNON, Pierluigi (University of Florida (US)) **Session Classification:** Current trigger systems

ALICE trigger upgrade

Contribution ID: 18

Type: not specified

## ALICE trigger upgrade

Thursday 1 February 2018 09:45 (45 minutes)

**Presenter:** PEREZ MORENO, Luis Alberto (Autonomous University of Puebla (MX)) **Session Classification:** Trigger system upgrades

ATLAS trigger upgrade

Contribution ID: 19

Type: not specified

## ATLAS trigger upgrade

Thursday 1 February 2018 09:00 (45 minutes)

**Presenter:** BRACINIK, Juraj (University of Birmingham (GB)) **Session Classification:** Trigger system upgrades

CMS trigger upgrade

Contribution ID: 20

Type: not specified

## CMS trigger upgrade

Thursday 1 February 2018 10:50 (45 minutes)

**Presenter:** REKOVIC, Vladimir (University of Wisconsin Madison (US)) **Session Classification:** Trigger system upgrades

The NA62 trigger system

Contribution ID: 21

Type: not specified

## The NA62 trigger system

Thursday 1 February 2018 15:45 (45 minutes)

**Presenter:** SOLDI, Dario (Universita e INFN Torino (IT)) **Session Classification:** Trigger system upgrades

LHCb trigger

Contribution ID: 22

Type: not specified

### LHCb trigger

Thursday 1 February 2018 11:35 (1 hour)

**Presenter:** RATNIKOV, Fedor (Yandex School of Data Analysis (RU)) **Session Classification:** Trigger system upgrades

Overview of NA62 Physics

Contribution ID: 23

Type: not specified

#### **Overview of NA62 Physics**

Thursday 1 February 2018 15:00 (45 minutes)

**Presenter:** ANZIVINO, Giuseppina (Universita e INFN, Perugia (IT)) **Session Classification:** Trigger system upgrades

Triggering with displaced muons ···

Contribution ID: 24

Type: not specified

#### Triggering with displaced muons in CMS

Thursday 1 February 2018 16:50 (40 minutes)

**Presenter:** CASTANEDA, Alfredo (Texas A & M University (US)) **Session Classification:** Trigger system upgrades Contribution ID: 25

Type: not specified

#### Lepton CP violation in nu2HDMxS3

Tuesday 30 January 2018 12:20 (40 minutes)

In the theoretical framework of Two Higgs Doublet Model type-III plus neutrinos and the horizontal flavor symmetry S3 (nu2HDMxS3), we compare the theoretical expressions of the flavor mixing angles with the current experimental data on masses and flavor mixing of leptons, through a chi-squar likelihood test. The results obtained in this chi-squared analysis are in very good agreement with the current experimental data. We also obtained an allowed value ranges for the 'Dirac-like" phase factor, as well as for the two Majorana phase factors. Furthermore, we study the phenomenological implications of these numerical values of the CP-violation phases on the neutrinoless double beta decay, and for Long Base-Line neutrino oscillation experiments such as T2K, NOvA and DUNE.

Presenter: GONZALEZ, Felix

Session Classification: Physics motivation, trigger and results

Closing

Contribution ID: 26

Type: not specified

## Closing

Thursday 1 February 2018 17:30 (10 minutes)

Session Classification: Trigger system upgrades