

# **The Future of Research on Cosmic Gamma Rays**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Introduction

*Wednesday, 26 August 2015 14:00 (30 minutes)*

**Presenter:** Prof. DE ANGELIS, Alessandro (INFN Padova and IST/LIP Lisboa)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 1

Type: **not specified**

## AGILE

*Wednesday, 26 August 2015 14:30 (30 minutes)*

**Presenter:** Dr PITTORI, Carlotta (ASI Data Center, Roma)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 2

Type: **not specified**

## Fermi

*Wednesday, 26 August 2015 15:00 (30 minutes)*

**Presenter:** Dr BUSON, Sara (NASA Goddard)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 3

Type: **not specified**

## Coffee Break

Contribution ID: 4

Type: **not specified**

## **H.E.S.S.**

*Wednesday, 26 August 2015 16:00 (30 minutes)*

**Presenter:** Prof. STEGMANN, Christian (DESY Zeuthen)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 5

Type: **not specified**

## VERITAS

*Wednesday, 26 August 2015 16:30 (30 minutes)*

**Presenter:** Prof. OTTE, Nepomuk (Georgia Tech)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 6

Type: **not specified**

## MAGIC

*Wednesday, 26 August 2015 17:00 (30 minutes)*

**Presenter:** Dr MIRZOYAN, Razmik (Max-Planck-Institute for Physics)

**Session Classification:** Introduction; Current results & facilities 1



Contribution ID: 7

Type: **not specified**

## ARGO

*Wednesday, 26 August 2015 17:30 (30 minutes)*

**Presenter:** Prof. SANTONICO, Rinaldo (INFN and University Roma 2)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 8

Type: **not specified**

## HAWC

*Wednesday, 26 August 2015 18:00 (30 minutes)*

**Presenter:** Prof. SANDOVAL, Andres (UNAM Mexico)

**Session Classification:** Introduction; Current results & facilities 1

Contribution ID: 9

Type: **not specified**

## **Km3net**

*Saturday, 29 August 2015 09:50 (30 minutes)*

**Presenter:** Dr SAPIENZA, Piera (LNS Catania)

**Session Classification:** Future; final remarks

Contribution ID: **10**

Type: **not specified**

## **DAMPE (and HERD)**

*Saturday, 29 August 2015 10:20 (30 minutes)*

**Presenter:** Prof. DE MITRI, Ivan (Universita del Salento, Lecce)

**Session Classification:** Future; final remarks

Contribution ID: 11

Type: **not specified**

## **Gamma400**

*Saturday, 29 August 2015 10:50 (30 minutes)*

**Presenter:** Prof. BASTIERI, Denis (University of Padova)

**Session Classification:** Future; final remarks

Contribution ID: 12

Type: **not specified**

## ASTRI

*Saturday, 29 August 2015 11:20 (30 minutes)*

**Presenter:** Dr VERCELLONE, Stefano (INAF Palermo)

**Session Classification:** Future; final remarks

Contribution ID: 13

Type: **not specified**

## Closing remarks

*Saturday, 29 August 2015 11:50 (10 minutes)*

**Presenter:** Dr MIRZOYAN, Razmik (MPI Munich)

**Session Classification:** Future; final remarks

Contribution ID: 14

Type: **not specified**

## **The scientific tasks of the new generation instruments in different energy bands**

*Friday, 28 August 2015 12:00 (45 minutes)*

**Presenter:** Prof. AHARONIAN, Felix (Dublin & Heidelberg)

**Session Classification:** The multimessenger view



Contribution ID: 15

Type: **not specified**

## **The Cherenkov Telescope Array**

*Friday, 28 August 2015 14:00 (30 minutes)*

**Presenter:** Dr KNÖDLESEDER, Jurgen (IRAP Paris)

**Session Classification:** Future experiments

Contribution ID: 16

Type: **not specified**

## Galactic physics with CTA

*Friday, 28 August 2015 14:30 (30 minutes)*

**Presenter:** Dr CHAVES, Ryan (CNRS Montpellier)

**Session Classification:** Future experiments

Contribution ID: 17

Type: **not specified**

## Extragalactic physics with CTA

*Friday, 28 August 2015 15:00 (30 minutes)*

**Presenter:** Dr BROWN, Anthony (Durham University)

**Session Classification:** Future experiments

Contribution ID: **18**

Type: **not specified**

## **Fundamental physics (dark matter searches in particular) with CTA**

*Friday, 28 August 2015 15:30 (30 minutes)*

**Presenter:** Dr ZECHLIN, Hannes (University of Torino)

**Session Classification:** Future experiments

Contribution ID: **19**

Type: **not specified**

## **LHAASO**

*Friday, 28 August 2015 16:30 (30 minutes)*

**Presenter:** Dr SIMEONE, Francesco (University of Roma)

**Session Classification:** Future experiments

Contribution ID: 20

Type: **not specified**

## **LATTES - A New Gamma Detector at High Altitude in South America**

*Friday, 28 August 2015 17:00 (30 minutes)*

**Presenter:** Dr SHELLARD, Ronald (CBPF Rio de Janeiro)

**Session Classification:** Future experiments

Contribution ID: 21

Type: **not specified**

## **MACHETE: a transit Imaging Atmospheric Cherenkov Telescope to survey half of the VHE gamma ray sky**

*Friday, 28 August 2015 17:30 (30 minutes)*

**Presenter:** Dr CORTINA, Juan (IFAE Barcelona)

**Session Classification:** Future experiments

Contribution ID: 22

Type: **not specified**

## **FACT - Alerts from TeV Gamma Rays in the Context of Multimessenger Astrophysics**

*Thursday, 27 August 2015 09:00 (30 minutes)*

**Presenter:** Dr DORNER, Daniela (Wurzburg University)

**Session Classification:** Current results & facilities 2



Contribution ID: 23

Type: **not specified**

## **Microlensing and emission region size for gravitationally lensed VHE sources**

*Thursday, 27 August 2015 09:30 (20 minutes)*

**Presenter:** Dr VOVK, Ievgen (MPI Munich)

**Session Classification:** Current results & facilities 2

Contribution ID: 24

Type: **not specified**

## **Extragalactic Background Light: status report**

*Thursday, 27 August 2015 10:35 (30 minutes)*

**Presenter:** Prof. FRANCESCHINI, Alberto (Universita di Padova)

**Session Classification:** Current results & facilities 2

Contribution ID: 25

Type: **not specified**

## **Multi-TeV to PeV gamma-ray astronomy: motivation and strategies**

*Thursday, 27 August 2015 11:35 (30 minutes)*

**Presenter:** Dr TLUCZYKONT, Martin (Hamburg University)

**Session Classification:** Current results & facilities 2

Contribution ID: 26

Type: **not specified**

# Fermi-LAT detection of gamma-ray pulsars above 10 GeV

*Thursday, 27 August 2015 11:05 (30 minutes)*

**Presenter:** Dr SAZ PARKINSON, Pablo (Hong Kong University/UCSC)

**Session Classification:** Current results & facilities 2

Contribution ID: 27

Type: **not specified**

## **Fluxes of gamma rays initiated by the electrons accelerated in thunderstorm atmosphere**

**Presenter:** Prof. CHILINGARYAN, Ashot (Yerevan Physics Institute)

Contribution ID: 28

Type: **not specified**

## **Neutrinos in multimessenger astrophysics**

*Friday, 28 August 2015 11:30 (30 minutes)*

**Presenter:** Prof. CAPONE, Antonio (Universita di Roma and INFN)

**Session Classification:** The multimessenger view

Contribution ID: 29

Type: **not specified**

## **Gamma ray astrophysics: the relation with cosmic rays and neutrino astrophysics**

*Friday, 28 August 2015 09:30 (30 minutes)*

**Presenter:** Dr ALOISIO, Roberto (GSSI l'Aquila)

**Session Classification:** The multimessenger view

The Future of Re ... / Report of Contributions

TBD

Contribution ID: **30**

Type: **not specified**

**TBD**



Contribution ID: **31**

Type: **not specified**

## **The future of neutrino physics**

*Friday, 28 August 2015 11:00 (30 minutes)*

**Presenter:** Dr MEZZETTO, Mauro (INFN Padova)

**Session Classification:** The multimessenger view

Contribution ID: 32

Type: **not specified**

## **Distinguishing short and long Fermi GRBs**

**Presenter:** Dr TARNOPOLSKI, Mariusz (Jagiellonian University Crakow)

Contribution ID: 33

Type: **not specified**

## **Direct and accelerator dark matter searches: complementarity to indirect searches**

*Friday, 28 August 2015 10:00 (30 minutes)*

**Presenter:** Dr ANTONELLI, Mario (Laboratori Nazionali di Frascati dell'INFN)

**Session Classification:** The multimessenger view

Contribution ID: 34

Type: **not specified**

## **Design and Optimization of a large field of view RPC array for high-energy gamma-rays detection**

*Saturday, 29 August 2015 09:30 (20 minutes)*

**Presenter:** Dr TOME, Bernardo (LIP Lisboa)

**Session Classification:** Future; final remarks

Contribution ID: 35

Type: **not specified**

## **VHE sources and intergalactic magnetic fields**

*Thursday, 27 August 2015 09:50 (20 minutes)*

**Presenter:** Dr VOVK, Ievgen (MPI Munich)

**Session Classification:** Current results & facilities 2

Contribution ID: 36

Type: **not specified**

## **X-ray polarimetry: a new diagnostic tool for gamma-ray emitters**

*Friday, 28 August 2015 18:00 (30 minutes)*

**Presenter:** Dr COSTA, Enrico (IAPS/INAF and ASI)

**Session Classification:** Future experiments