

8th HERD Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome speech

Monday, 16 December 2019 09:00 (10 minutes)

Session Classification: Welcome & general progress

Contribution ID: 1

Type: **not specified**

General progress of HERD

Monday, 16 December 2019 09:10 (20 minutes)

Presenter: ZHANG, Shuang-Nan

Session Classification: Welcome & general progress

Contribution ID: 2

Type: **not specified**

Payload progress and update

Monday, 16 December 2019 09:30 (15 minutes)

Presenter: Dr DONG, Yongwei (Center for particle astrophysics, Institute of High Energy Physics, CAS)

Session Classification: Welcome & general progress

Contribution ID: 3

Type: **not specified**

TeV gamma ray halo and cosmic electrons spectrum

Monday, 16 December 2019 10:10 (25 minutes)

Presenter: Dr BI, Xiaojun (IHEP, CAS)

Session Classification: Welcome & general progress

Contribution ID: 4

Type: **not specified**

Recent advances in galactic CR observations: the importance of the HERD measurements

Monday, 16 December 2019 09:45 (25 minutes)

Presenters: Prof. DE MITRI, Ivan; Prof. ADRIANI, Oscar (University of Florence)

Session Classification: Welcome & general progress

Contribution ID: 5

Type: **not specified**

CALO beam test results & update

Monday, 16 December 2019 10:55 (20 minutes)

Presenter: QUAN ZHENG, Zheng (IHEP)

Session Classification: CALO progress

Contribution ID: 6

Type: **not specified**

High performance sCMOS platform

Monday, 16 December 2019 11:30 (15 minutes)

Presenter: 高, 佳锐 (中国科学院西安光学精密机械研究所)

Session Classification: CALO progress

Contribution ID: 7

Type: **not specified**

CALO dual readout prototype

Monday, 16 December 2019 12:00 (20 minutes)

Presenters: LORENZO, Pacini (Florence); Mr 刘, 鑫 (高能所)

Session Classification: CALO progress

Contribution ID: 8

Type: **not specified**

TRD progress and beam test results

Presenter: Mr LIU, Hongbang (GXU)

Contribution ID: 9

Type: **not specified**

PSD bar prototype at IHEP

Tuesday, 17 December 2019 09:00 (20 minutes)

Presenter: Dr WANG, Zhigang (IHEP)

Session Classification: PSD progress

Contribution ID: 10

Type: **not specified**

GEANT4-based simulation of light production/propagation/detection in bar shaped PSD with SiPM readout

Tuesday, 17 December 2019 09:20 (15 minutes)

Presenter: ALEMANNNO, Francesca (G)

Session Classification: PSD progress

Contribution ID: 11

Type: **not specified**

First test measurements on bar-shaped PSD with SiPM readout at GSSI-LNGS

Tuesday, 17 December 2019 09:35 (20 minutes)

Presenter: KYRATZIS, Dimitrios (G)

Session Classification: PSD progress

Contribution ID: 12

Type: **not specified**

CNAO facility for HERD beam test

Tuesday, 17 December 2019 09:55 (15 minutes)

Presenter: CATTANEO, Paolo Walter (I)

Session Classification: PSD progress

Contribution ID: 13

Type: **not specified**

Preliminary results on PSD tile beam test @CNAO

Tuesday, 17 December 2019 10:10 (15 minutes)

Presenter: RAPPOLDI, Andrea (I)

Session Classification: PSD progress

Contribution ID: 14

Type: **not specified**

Status on the PSD activity in Lecce

Tuesday, 17 December 2019 10:45 (15 minutes)

Presenter: Dr MARSELLA, Giovanni (Università del Salento and INFN)

Session Classification: PSD progress

Contribution ID: 15

Type: **not specified**

Test results on PSD tile prototype in Bari

Tuesday, 17 December 2019 11:00 (15 minutes)

Presenter: ALTOMARE, Corrado (U)

Session Classification: PSD progress

Contribution ID: 16

Type: **not specified**

A full and customizable simulation of a scintillation tile equipped with SiPMs for HERD PSD

Tuesday, 17 December 2019 11:15 (20 minutes)

Presenter: SERINI, Davide (I)

Session Classification: PSD progress

Contribution ID: 17

Type: **not specified**

Preliminary studies on the effect of backslash in photon identification

Presenter: Mr HU, 鹏 (高能所)

Contribution ID: **18**

Type: **not specified**

Proposal for HERD improved design

Monday, 16 December 2019 14:00 (20 minutes)

Presenters: AMBROSI, Giovanni (INFN-PG); Prof. ADRIANI, Oscar (University of Florence)

Session Classification: Improvement design

Contribution ID: 19

Type: **not specified**

STK beam result & SCD idea

Monday, 16 December 2019 14:40 (20 minutes)

Presenter: PENG, Wenxi (IHEP)

Session Classification: Improvement design

Contribution ID: 20

Type: **not specified**

FIT photon performances

Monday, 16 December 2019 15:00 (20 minutes)

Presenter: WU, Xin (University of Geneva)

Session Classification: Improvement design

Contribution ID: 21

Type: **not specified**

Strip SCD performances

Monday, 16 December 2019 14:20 (20 minutes)

Presenter: OLIVA, A. (CIEMAT)

Session Classification: Improvement design

Contribution ID: 22

Type: **not specified**

FIT beam test results

Monday, 16 December 2019 16:40 (20 minutes)

Presenter: AZZARELLO, Philipp (U)

Session Classification: TK&TRD progress

Contribution ID: 23

Type: **not specified**

Status report on FIT design and integration

Monday, 16 December 2019 17:00 (20 minutes)

Presenter: CADOUX, Frank (U)

Session Classification: TK&TRD progress

Contribution ID: 24

Type: **not specified**

HERDSoftware update

Presenter: Dr MORI, Nicola (INFN Florence)

Contribution ID: 25

Type: **not specified**

Trigger studies

Presenter: CASAUS, Jorge (CIEMAT)

Contribution ID: 26

Type: **not specified**

Acceptance measurement with HERDSoftware

Presenter: PACINI, Lorenzo (I)

Contribution ID: 27

Type: **not specified**

Simulation on fragmentation for high energy CR

Monday, 16 December 2019 13:40 (20 minutes)

Presenter: QUAN ZHENG, Zheng (IHEP)

Session Classification: Improvement design

Contribution ID: 28

Type: **not specified**

Effect of nuclear interactions for the charge measurement

Monday, 16 December 2019 13:20 (20 minutes)

Presenter: BOTTAL, sergio (I)

Session Classification: Improvement design

Contribution ID: 29

Type: **not specified**

FIT module simulation

Presenter: 王, 俊静 (高能所)

Contribution ID: **30**

Type: **not specified**

SDU

Contribution ID: 31

Type: **not specified**

Time detector in HERD

Monday, 16 December 2019 15:20 (20 minutes)

Presenter: DURANTI, Matteo (I)

Session Classification: Improvement design

Contribution ID: 32

Type: **not specified**

Discussion on payload configuration

Monday, 16 December 2019 15:40 (40 minutes)

Session Classification: Improvement design

Contribution ID: 33

Type: **not specified**

TRD progress

Monday, 16 December 2019 17:20 (20 minutes)

Presenter: Mr LIU, Hongbang (GXU)

Session Classification: TK&TRD progress

Contribution ID: 34

Type: **not specified**

Discussion on MC & SOFTWARE

Contribution ID: 35

Type: **not specified**

Discussion on PSD

Tuesday, 17 December 2019 11:35 (25 minutes)

Session Classification: PSD progress

Contribution ID: 36

Type: **not specified**

HERDSsoftware framework update

Tuesday, 17 December 2019 13:00 (20 minutes)

Presenter: Dr MORI, Nicola (INFN Florence)

Session Classification: MC & SOFTWARE

Contribution ID: 37

Type: **not specified**

Acceptance measurement with HERDSoftware

Tuesday, 17 December 2019 13:20 (20 minutes)

Presenter: PACINI, Lorenzo (I)

Session Classification: MC & SOFTWARE

Contribution ID: **38**

Type: **not specified**

Trigger studies

Tuesday, 17 December 2019 13:40 (20 minutes)

Presenter: CASAUS, Jorge (CIEMAT)

Session Classification: MC & SOFTWARE

Contribution ID: 39

Type: **not specified**

FIT module simulation

Tuesday, 17 December 2019 14:00 (20 minutes)

Presenter: 王, 俊静 (高能所)

Session Classification: MC & SOFTWARE

Contribution ID: 40

Type: **not specified**

Preliminary studies on the effect of backslash in photon identification

Tuesday, 17 December 2019 14:20 (20 minutes)

Presenter: Mr HU, 鹏 (高能所)

Session Classification: MC & SOFTWARE

Contribution ID: 41

Type: **not specified**

Discussion on MC & SOFTWARE

Contribution ID: 42

Type: **not specified**

Performance of image intensifier for IsCMOS readout system of HERD

Monday, 16 December 2019 11:15 (15 minutes)

Presenter: Dr WANG, Bo (XIOPM)

Session Classification: CALO progress

Contribution ID: 43

Type: **not specified**

CALO Photodiode trigger and readout system

Monday, 16 December 2019 11:45 (15 minutes)

Presenter: MARIN, JESUS (CIEMAT)

Session Classification: CALO progress

Contribution ID: 44

Type: **not specified**

Introduction to the software system based on SNIPEr

Tuesday, 17 December 2019 16:00 (20 minutes)

Presenter: Prof. HUANG, Xingtao (Shandong University)

Session Classification: Discussion on MC & SOFTWARE

Contribution ID: 45

Type: **not specified**

Direct Detection of TeV-PeV Cosmic Rays in Space

Tuesday, 17 December 2019 16:20 (20 minutes)

Primary author: TYKHONOV, Andrii (U)

Presenter: TYKHONOV, Andrii (U)

Session Classification: Discussion on MC & SOFTWARE