

COMPOSITION

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome / Intro / Scope of Meeting

Monday, September 21, 2015 11:00 AM (10 minutes)

Presenter: HAUNGS, Andreas

Session Classification: Overviews

Contribution ID: 1

Type: **not specified**

Overview: Experimental Results

Monday, September 21, 2015 12:00 PM (50 minutes)

Presenter: CASTELLINA, Antonella

Session Classification: Overviews

Contribution ID: 2

Type: **not specified**

Overview: Source and Propagation Models

Monday, September 21, 2015 2:30 PM (50 minutes)

Presenter: BLASI, Pasquale

Session Classification: Overviews

Contribution ID: 3

Type: **not specified**

Overview: Hadronic Interactions and Shower Physics

Monday, September 21, 2015 11:10 AM (50 minutes)

Presenter: ENGEL, Ralph

Session Classification: Overviews

Contribution ID: 4

Type: **not specified**

Summary of experimental contributions

Contribution ID: 5

Type: **not specified**

Summary of shower physics contributions

Contribution ID: 6

Type: **not specified**

Summary of theory contributions

Contribution ID: 7

Type: **not specified**

Combined discussions

Contribution ID: 8

Type: **not specified**

Discussions, continued

Contribution ID: 9

Type: **not specified**

Discussion on current situation - where to go from here

Contribution ID: **10**

Type: **not specified**

Composition Results from Auger

Monday, September 21, 2015 3:20 PM (20 minutes)

Presenter: ROTH, Markus

Session Classification: Contributions

Contribution ID: 11

Type: **not specified**

Composition Results from TA and TALE

Monday, September 21, 2015 3:40 PM (20 minutes)

Presenter: BERGMAN, Douglas

Session Classification: Contributions

Contribution ID: 12

Type: **not specified**

Performance and future Evolution of QGSJET

Monday, September 21, 2015 4:30 PM (20 minutes)

Presenter: OSTAPCHENKO, Sergey

Session Classification: Contributions

Contribution ID: 13

Type: **not specified**

Performance and future Evolution of EPOS

Monday, September 21, 2015 4:50 PM (20 minutes)

Presenter: PIEROG, Tanguy

Session Classification: Contributions

Contribution ID: 14

Type: **not specified**

Performance and future Evolution of SIBYLL

Monday, September 21, 2015 5:10 PM (20 minutes)

Presenter: RIEHN, Felix

Session Classification: Contributions

Contribution ID: 15

Type: **not specified**

CR acceleration at Supernova remnants / Galactic CR maximum Energy

Monday, September 21, 2015 5:30 PM (15 minutes)

Presenter: GIACINTI, Gwenael

Session Classification: Contributions

Contribution ID: 16

Type: **not specified**

Investigation of the Galactic Magnetic Field using Ultra-High Energy Cosmic Rays

Monday, September 21, 2015 5:45 PM (15 minutes)

Presenter: ERDMANN, Martin

Session Classification: Contributions

Contribution ID: 17

Type: **not specified**

Direct composition measurements: status and prospects

Tuesday, September 22, 2015 9:00 AM (20 minutes)

Presenter: COUTU, Stephane

Session Classification: Contributions

Contribution ID: **18**

Type: **not specified**

Overview of KASCADE-Grande results

Tuesday, September 22, 2015 10:15 AM (20 minutes)

Presenter: SCHOO, Sven

Session Classification: Contributions

Contribution ID: 19

Type: **not specified**

HAWC: The high-altitude water Cherenkov gamma-ray observatory

Tuesday, September 22, 2015 9:30 AM (20 minutes)

Presenter: ARTEAGA-VELAZQUEZ, Juan Carlos

Session Classification: Contributions

Contribution ID: 20

Type: **not specified**

Elemental Composition of Cosmic Rays with Tunka-133

Tuesday, September 22, 2015 10:35 AM (20 minutes)

Presenter: EPIMAKHOV, Sergey

Session Classification: Contributions

Contribution ID: 21

Type: **not specified**

Multi-parameter Measurements of CR Species for Their Knees as well as Argo-YBJ results

Tuesday, September 22, 2015 9:50 AM (25 minutes)

Presenter: CAO, Zhen

Session Classification: Contributions

Contribution ID: 22

Type: **not specified**

Measuring the Muon Content of Air Showers with IceTop

Tuesday, September 22, 2015 11:15 AM (15 minutes)

Presenter: GONZALES, Javier

Session Classification: Contributions

Contribution ID: 23

Type: **not specified**

Cosmic Ray composition between ~1 PeV and ~1 EeV with 3 years of IceTop and IceCube data

Tuesday, September 22, 2015 11:30 AM (15 minutes)

Presenter: DE RIDDER, Sam

Session Classification: Contributions

Contribution ID: 24

Type: **not specified**

Neutrino-cosmic ray connection: The GRB case

Tuesday, September 22, 2015 11:45 AM (20 minutes)

Presenter: WINTER, Walter

Session Classification: Contributions

Contribution ID: 25

Type: **not specified**

Measurements at LHC and their relevance for air shower physics

Tuesday, September 22, 2015 12:05 PM (25 minutes)

Presenter: ULRICH, Ralf

Session Classification: Contributions

Contribution ID: 26

Type: **not specified**

On hidden uncertainties in CORSIKA

Tuesday, September 22, 2015 12:30 PM (15 minutes)

Presenter: KNAPP, Johannes

Session Classification: Contributions

Contribution ID: 27

Type: **not specified**

Cosmic Ray accelerators seen with Gamma ray astronomy

Tuesday, September 22, 2015 2:00 PM (20 minutes)

Presenter: OHM, Stefan

Session Classification: Contributions

Contribution ID: 28

Type: **not specified**

CR anisotropy and composition in the sub-ankle region as a way to constrain the energy of the transition from Galactic to extragalactic CRs

Tuesday, September 22, 2015 2:20 PM (20 minutes)

Presenter: GIACINTI, Gwenael

Session Classification: Contributions

Contribution ID: 29

Type: **not specified**

Prospects and benefits of using data from historic projects

Tuesday, September 22, 2015 2:40 PM (20 minutes)

Presenter: WATSON, Alan

Session Classification: Contributions

Contribution ID: 30

Type: **not specified**

EAS Composition Studies: Some Data and Physics in the last 25 Years

Tuesday, September 22, 2015 3:00 PM (20 minutes)

Presenter: MATTHEWS, James

Session Classification: Contributions

Contribution ID: 31

Type: **not specified**

Description of CR data from 20Gev to 200 EeV: update on Global Fit (GST) with the latest composition results from experiments

Presenter: TILAV, Serap

Contribution ID: 32

Type: **not specified**

Expected/potential evolution of the composition at high energy

Contribution ID: 33

Type: **not specified**

Transition from galactic to extragalactic cosmic rays: cosmic rays, secondary neutrinos and gamma rays

Tuesday, September 22, 2015 4:15 PM (15 minutes)

Presenter: SEMIKOZ, Dmitri

Session Classification: Contributions

Contribution ID: 34

Type: **not specified**

Extragalactic Cosmic Rays in the Knee to Ankle Region

Tuesday, September 22, 2015 4:30 PM (15 minutes)

Presenter: TAYLOR, Andrew

Session Classification: Contributions

Contribution ID: 35

Type: **not specified**

Composition models: what to expect from known cosmic accelerators

Wednesday, September 23, 2015 9:00 AM (20 minutes)

Presenter: POHL, Martin

Session Classification: Contributions

Contribution ID: 36

Type: **not specified**

Galactic cosmic ray composition in the escape model

Wednesday, September 23, 2015 9:20 AM (20 minutes)

Presenter: KACHELRIESS, Michael

Session Classification: Contributions

Contribution ID: 37

Type: **not specified**

Radio Xmax detection with LOFAR and AERA

Wednesday, September 23, 2015 9:40 AM (15 minutes)

Presenter: HÖRANDEL, Jörg

Session Classification: Contributions

Contribution ID: 38

Type: **not specified**

Radio simulations and future multi-hybrid measurements

Wednesday, September 23, 2015 9:55 AM (15 minutes)

Presenter: SCHRÖDER, Frank

Session Classification: Contributions

Contribution ID: 39

Type: **not specified**

Mass composition using radio detection of EAS with SKA-low

Wednesday, September 23, 2015 10:10 AM (15 minutes)

Presenter: ZILLES, Anne

Session Classification: Contributions

Contribution ID: 40

Type: **not specified**

Summary Report: "Experiments"

Wednesday, September 23, 2015 11:00 AM (20 minutes)

Presenter: BERTAINA, Mario

Session Classification: Summary reports

Contribution ID: 41

Type: **not specified**

Summary Report: "Source and Propagation models"

Wednesday, September 23, 2015 11:20 AM (20 minutes)

Presenter: LIPARI, Paolo

Session Classification: Summary reports

Contribution ID: 42

Type: **not specified**

Summary Report: "Hadronic & shower Models"

Wednesday, September 23, 2015 11:40 AM (20 minutes)

Presenter: OSTAPCHENKO, Sergey

Session Classification: Summary reports

Contribution ID: 43

Type: **not specified**

Supernova Cosmology

Tuesday, September 22, 2015 6:30 PM (45 minutes)

Presenter: PAIN, Reynald

Session Classification: Common Session with the Dark Matter Workshop

Contribution ID: 44

Type: **not specified**

Overview over the current situation / Where to go from here?

Wednesday, September 23, 2015 2:00 PM (40 minutes)

Presenter: GAISSER, Tom

Session Classification: Workshop Summary & Closure

Contribution ID: 45

Type: **not specified**

A common paper

Wednesday, September 23, 2015 2:40 PM (10 minutes)

Presenter: KNAPP, Johannes

Session Classification: Workshop Summary & Closure

Contribution ID: 46

Type: **not specified**

Cosmic Ray Physics with TeV Muons in Large Volume Detectors

Tuesday, September 22, 2015 4:45 PM (15 minutes)

Presenter: GAISSER, Tom

Session Classification: Contributions

Contribution ID: 47

Type: **not specified**

Composition measurements by direct Cherenkov light observed by IACTs

Tuesday, September 22, 2015 9:20 AM (10 minutes)

Presenter: FLEISCHHACK, Henrike

Session Classification: Contributions

Contribution ID: 48

Type: **not specified**

CR spectrum and composition by the ARGO-YBJ experiment

Presenter: SURDO, Antonio