

## **Session Program**

**Sep 21 - 23, 2015**

# **COMPOSITION**

## **Contributions**

KIT Campus North, Bld 401 Room 410

# Mon, September 21

3:20 PM

## Contributions

**Session** | **Location:** KIT Campus North, Bld 401 Room 410

15:20 – 15:40

### Composition Results from Auger

#### Speaker

Markus Roth

15:40 – 16:00

### Composition Results from TA and TALE

#### Speaker

Douglas Bergman

4:00 PM

4:30 PM

## Contributions

**Session** | **Location:** KIT Campus North, Bld 401 Room 410

16:30 – 16:50

### Performance and future Evolution of QGSJET

#### Speaker

Sergey Ostapchenko

16:50 – 17:10

### Performance and future Evolution of EPOS

#### Speaker

Tanguy Pierog

17:10 – 17:30

### Performance and future Evolution of SIBYLL

#### Speaker

Felix Riehn

17:30 – 17:45

### CR acceleration at Supernova remnants / Galactic CR maximum Energy

#### Speaker

Gwenael Giacinti

17:45 – 18:00

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

#### Speaker

Martin Erdmann

6:00 PM

## Tue, September 22

9:00 AM

### Contributions

**Session** | **Location:** KIT Campus North, Bld 401 Room 410

09:00 – 09:20 **Direct composition measurements: status and prospects**

**Speaker**

Stephane Coutu

09:20 – 09:30

**Composition measurements by direct Cherenkov light observed by IACTs**

**Speaker**

Henrike Fleischhack

09:30 – 09:50

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

**Speaker**

Juan Carlos Arteaga-Velazquez

09:50 – 10:15

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

**Speaker**

Zhen Cao

10:15 – 10:35

**Overview of KASCADE-Grande results**

**Speaker**

Sven Schoo

10:35 – 10:55

**Elemental Composition of Cosmic Rays with Tunka-133**

**Speaker**

Sergey Epimakhov

10:55 AM

11:15 AM

### Contributions

**Session** | **Location:** KIT Campus North, Bld 401 Room 410

11:15 – 11:30

**Measuring the Muon Content of Air Showers with IceTop**

**Speaker**

Javier Gonzales

11:30 – 11:45

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

**Speaker**

Sam de Ridder

11:45 – 12:05

**Neutrino-cosmic ray connection: The GRB case**

**Speaker**

Walter Winter

12:45 PM

12:05 - 12:30

**Measurements at LHC and their relevance for air shower physics****Speaker**

Ralf Ulrich

12:30 - 12:45

**On hidden uncertainties in CORSIKA****Speaker**

Johannes Knapp

2:00 PM

**Contributions****Session** | **Location:** KIT Campus North, Bld 401 Room 410

14:00 - 14:20

**Cosmic Ray accelerators seen with Gamma ray astronomy****Speaker**

Stefan Ohm

14:20 - 14:40

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

Gwenael Giacinti

14:40 - 15:00

**Prospects and benefits of using data from historic projects****Speaker**

Alan Watson

15:00 - 15:20

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

James Matthews

3:30 PM

4:00 PM

**Contributions****Session** | **Location:** KIT Campus North, Bld 401 Room 410

16:15 - 16:30

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

Dmitri Semikoz

16:30 - 16:45

**Extragalactic Cosmic Rays in the Knee to Ankle Region****Speaker**

Andrew Taylor

16:45 - 17:00

**Cosmic Ray Physics with TeV Muons in Large Volume Detectors****Speaker**

Tom Gaisser

5:00 PM

## Wed, September 23

9:00 AM

### Contributions

**Session** | **Location:** KIT Campus North, Bld 401 Room 410

09:00 – 09:20

**Composition models: what to expect from known cosmic accelerators****Speaker**

Martin Pohl

09:20 – 09:40

**Galactic cosmic ray composition in the escape model****Speaker**

Michael KACHELRIESS

09:40 – 09:55

**Radio Xmax detection with LOFAR and AERA****Speaker**

Jörg Hörandel

09:55 – 10:10

**Radio simulations and future multi-hybrid measurements****Speaker**

Frank Schröder

10:10 – 10:25

**Mass composition using radio detection of EAS with SKA-low****Speaker**

Anne Zilles

10:30 AM