

Session Program

12-15 Jun 2018



ARENA 2018 - Acoustic and Radio EeV Neutrino Detection Activities

Experimental data

Tuesday 12 June

18:00

Experimental data: Radio detection 1

Session | **Location:** Laboratori Nazionali del Sud - INFN Via Santa Sofia 62, I-95123 Catania, Italy | **Convener:** Steven Barwick

18:00–18:20

Measurements of Horizontal Air Showers with the Auger Engineering Radio Array

Speaker

Mr Marvin Gottowik

18:20–18:40

Estimating the mass of cosmic rays by combining radio and muon measurements

Speaker

Ewa M. Holt

18:40–19:00

Signal recognition and background suppression by matched filters and neural networks for Tunka-Rex

Speaker

Dmitry Shipilov

19:00–19:20

Cosmic ray composition measurements with the Auger Engineering Radio Array

Speaker

Fabrizia Canfora

19:20–19:40

Determination of cosmic-ray primary mass on an event-by-event basis using radio detection

Speaker

Washington Carvalho Jr.

19:40

Thursday 14 June

09:40

Experimental data: Acoustic detection 1

Session | **Location:** Laboratori Nazionali del Sud - INFN Via Santa Sofia 62, I-95123 Catania, Italy | **Convener:** Veronique Van Elewyck

09:40–10:00

KM3NeT acoustic positioning and detection system

Speaker

Salvatore Viola

10:00–10:20

Hydrophone characterization for the KM3NeT experiment

Speaker

Ernst-Jan Buis

10:20

10:20

Experimental data: Radio detection 2

Session | **Location:** Laboratori Nazionali del Sud - INFN Via Santa Sofia 62, I-95123 Catania, Italy | **Convener:** Veronique Van Elewyck

10:20–10:40

ARIANNA: Measurement of cosmic rays with a radio neutrino detector in Antarctica

Speaker

Christian Glaser

10:40–11:00

Sensitivity of the 5-station Configuration of ARA

Speaker

Simon Archambault

11:00

11:30

Experimental data: Radio detection 3

Session | **Location:** Laboratori Nazionali del Sud - INFN Via Santa Sofia 62, I-95123 Catania, Italy | **Convener:** David Seckel

11:30–11:50

Observation of radio emissions from an electron beam using an ice target

Speaker

Keiichi Mase

11:50–12:10

Interferometric Reconstruction and Analysis Methods for the Askaryan Radio Array

Speaker

Dr John Kelley

12:10–12:30

Measurements of radio emission induced by Ultra-high energy Cosmic rays with energies above 1 EeV with AERA

Speaker

Florian Briechle

12:30–12:50

First analysis of inclined air-showers detected by Tunka-Rex

Speaker

Dmitriy Kostunin

12:50-13:10

Latest results on the analysis of the radio frequency spectrum emitted by high energy air showers with LOFAR

Speaker

Jörg Hörandel

13:10-13:30

SLAC T-510: Experimental validation of particle-level simulations of radio emission from particle cascades

Speaker

Katie Mulrey

13:30