

Session Program

Nov 2 - 3, 2021



HIRSAP Workshop 2021

PhD talks

Tue, November 2

2:15 PM

PhD talks: I

Session | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Oliver Sander

14:15 – 14:30

Back-end Design of the Read-out System for Cryogenic Particle Detectors

Speaker

Luciano Ferreyro

14:30 – 14:45

Front-End Design of the Read-Out System for Micro-machined Sensors (tbc)

Speaker

Redondo Manuel Elias Garcia

14:45 – 15:00

Signal analysis on a μ Mux SQUID

Speaker

Juan Manuel Salum

3:00 PM

3:15 PM

PhD talks: II

Session | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Manuel Platino

15:15 – 15:30

Metallic Magnetic Calorimeters: Micromachined Absorbers for Cosmic Microwave Background Radiation (tbc)

Speaker

Juan José Bonaparte

15:30 – 15:45

A bolometric Receiver for the LLAMA-QUBIC project

Speaker

Juan Manuel Geria

15:45 – 16:00

Boosting Time Resolution of Pixel Sensors with SiGe BiCMOS Technology

Speaker

Alexander Elsenhans

4:00 PM

4:15 PM

PhD talks: III

Session | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Darko Veberic

16:15 – 16:30

Performance of the AugerPrime Surface Detector

Speaker

Alexander Streich

16:30 – 16:45

Exploiting the Trigger Information of the Pierre Auger Observatory

Speaker

Martin Schimassek

16:45 – 17:00

Hybrid Spectrum Studies: Fiducial Distance

5:30 PM

Speaker Kathrin Bismark
<div>17:00 - 17:15</div> Studies for cross-calibration between Sd-SSd and Md
Speaker Carmina Pérez Bertolli
<div>17:15 - 17:30</div> Extension to lower energies of the cosmic-ray energy window at the Pierre Auger Observatory
Speaker Gaia Silli

Wed, November 3

2:00 PM

PhD talks: IV

Session | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Federico Sanchez

14:00 – 14:15

Mass composition of the cosmic rays by using multi-hybrid data of the Pierre Auger Observatory (tbc)

Speaker

Marina Scornavacche

14:15 – 14:30

Estimation of the muon density and the muon lateral distribution function in AMIGA

Speaker

Flavia Gesualdi

14:30 – 14:45

Reconstruction of muon LDF using ADC and binary channels of UMD

Speaker

Varada Kizakke Covilakam

14:45 – 15:00

UMD characterization

Speaker

Joaquin de Jesus

3:00 PM

3:15 PM

PhD talks: V

Session | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Markus Roth

15:15 – 15:30

universality-v2, final chapters

Speaker

Max Stadelmaier

15:30 – 15:45

Estimating the Mass Composition of Ultra-high Energy Cosmic Rays using Deep-Learning based Predictions based on Data of the Surface Detector of the Pierre Auger Observatory (tbc)

Speaker

Steffen Hahn

15:45 – 16:00

Study of the Xmax-Nmu anticorrelation in search of physical properties of the first interactions (tbc)

Speaker

Isabel Goos

16:00 – 16:15

Cosmic rays arrival direction maps

Speaker

Emily Martins

4:15 PM

4:30 PM

PhD talks: VI**Session** | **Location:** Hybrid meeting online via zoom @KIT: bld 401, room 410 | **Convener:** Tim Huege**16:30 – 16:45 Study of the effect of Magnetic Fields on UHE anisotropies****Speaker**

Luca Deval

16:45 – 17:00 Spectral fitting for inclined showers and analysis**Speaker**

Sara Martinelli

17:00 – 17:15 New Electric Field Mills for the Auger Radio Upgrade**Speaker**

Max Büsken

17:15 – 17:30 Detecting inclined air showers with the AugerPrime Observatory**Speaker**

Felix Schlüter

5:30 PM