



# HIRSAP Workshop 2021

## Tuesday, November 2, 2021

### PhD talks: I (2:15 PM - 3:00 PM)

-Conveners: Oliver Sander

time	[id] title	presenter
2:15 PM	[8] Back-end Design of the Read-out System for Cryogenic Particle Detectors	FERREYRO, Luciano
2:30 PM	[6] Front-End Design of the Read-Out System for Micro-machined Sensors (tbc)	MANUEL ELIAS GARCIA, Redondo
2:45 PM	[5] Signal analysis on a $\mu$ Mux SQUID	SALUM, Juan Manuel

### PhD talks: II (3:15 PM - 4:00 PM)

-Conveners: Manuel Platino

time	[id] title	presenter
3:15 PM	[9] Metallic Magnetic Calorimeters: Micromachined Absorbers for Cosmic Microwave Background Radiation (tbc)	BONAPARTE, Juan José
3:30 PM	[7] A bolometric Receiver for the LLAMA-QUBIC project	GERIA, Juan Manuel
3:45 PM	[4] Boosting Time Resolution of Pixel Sensors with SiGe BiCMOS Technology	ELSENHANS, Alexander

### PhD talks: III (4:15 PM - 5:30 PM)

-Conveners: Darko Veberic

time	[id] title	presenter
4:15 PM	[11] Performance of the AugerPrime Surface Detector	STREICH, Alexander
4:30 PM	[12] Exploiting the Trigger Information of the Pierre Auger Observatory	SCHIMASSEK, Martin
4:45 PM	[13] Hybrid Spectrum Studies: Fiducial Distance	BISMARCK, Kathrin
5:00 PM	[10] Studies for cross-calibration between Sd-SSd and Md	PÉREZ BERTOLLI, Carmina
5:15 PM	[27] Extension to lower energies of the cosmic-ray energy window at the Pierre Auger Observatory	SILLI, Gaia

# Wednesday, November 3, 2021

## PhD talks: IV (2:00 PM - 3:00 PM)

-Conveners: Federico Sanchez

time	[id] title	presenter
2:00 PM	[18] Mass composition of the cosmic rays by using multi-hybrid data of the Pierre Auger Observatory (tbc)	SCORNAVACCHE, Marina
2:15 PM	[20] Estimation of the muon density and the muon lateral distribution function in AMIGA	GESUALDI, Flavia
2:30 PM	[14] Reconstruction of muon LDF using ADC and binary channels of UMD	KIZAKKE COVILAKAM, Varada
2:45 PM	[15] UMD characterization	DE JESUS, Joaquin

## PhD talks: V (3:15 PM - 4:15 PM)

-Conveners: Markus Roth

time	[id] title	presenter
3:15 PM	[16] universality-v2, final chapters	STADELMAIER, Max
3:30 PM	[17] 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)	HAHN, Steffen
3:45 PM	[19] Study of the Xmax-Nmu anticorrelation in search of physical properties of the first interactions (tbc)	GOOS, Isabel
4:00 PM	[21] Cosmic rays arrival direction maps	MARTINS, Emily

## PhD talks: VI (4:30 PM - 5:30 PM)

-Conveners: Tim Huege

time	[id] title	presenter
4:30 PM	[22] Study of the effect of Magnetic Fields on UHE anisotropies	DEVAL, Luca
4:45 PM	[23] Spectral fitting for inclined showers and analysis	MARTINELLI, Sara
5:00 PM	[24] New Electric Field Mills for the Auger Radio Upgrade	BÜSKEN, Max
5:15 PM	[25] Detecting inclined air showers with the AugerPrime Observatory	SCHLÜTER, Felix