

ANTARES-KM3NeT Collaboration Meeting, Rome (Italy)

Monday, October 24, 2022 - Friday, October 28, 2022

Program

Monday, October 24, 2022

Registration (9:30 AM - 10:00 AM)

WG: Simulation (10:00 AM - 11:00 AM)

-Conveners: Carla Distefano; Carla Distefano

time	title	presenter
10:00 AM	Introduction and gSeaGen v7.4.0	DISTEFANO, Carla
10:15 AM	KM3Sim status	MAŃCZAK, Jerzy
10:35 AM	KM3Sim-JSirene Comparison	TZAMARIUDAKI, Ekaterini ZARPAPIS, Giorgos KULIKOVSKIY, Vladimir
10:50 AM	COUSN simulation	GOOS, Isabel EL HEDRI, Sonia

Coffee Break (11:00 AM - 11:30 AM)

WG: Cosmic rays (11:30 AM - 12:50 PM)

-Conveners: Ronald Bruijn; Ronald Bruijn

time	title	presenter
11:30 AM	Cosmic Ray group	BRUIJN, Ronald
11:45 AM	Muon Decay	PAPALASHVILI, Gogita PAPALASHVILI, Gogita
12:00 PM	Mapping muons	BAILLY-SALINS, Louis
12:15 PM	Homepage/CORSIKA tuning	ROMANOV, Andrey ROMANOV, Andrey
12:30 PM	Acoustic Neutrino Detection	STAVROPOULOS, Dimitris

Lunch (12:50 PM - 1:50 PM)

WG: Dark Matter (1:50 PM - 3:20 PM)

-Conveners: Sara Rebecca Gozzini

time	title	presenter
1:50 PM	Working group summary	GOZZINI, Sara Rebecca
2:00 PM	Search for dark matter in the Sun with ORCA6	GUTIERREZ, Miguel
2:15 PM	Galactic Center WIMPs: standard and line searches	SAINA, Adrian
2:45 PM	Sensitivity to very massive nuclearites with KM3NeT	PAUN, Alice PAUN, Alice
3:00 PM	Optimisation/signal enhancement for DM searches with ORCA115	RUNGE, Niels

Coffee Break (3:20 PM - 3:50 PM)

WG: Oscillation (3:50 PM - 5:50 PM)**-Conveners: Juergen Brunner; Joao Coelho**

time	title	presenter
3:50 PM	Introduction	BRUNNER, Juergen
4:20 PM	Systematics study of JSirene versus km3sim	LAZO, Alfonso LAZO, Alfonso
4:50 PM	ParamPID tuning with new DST based on JGandalf plus JShowerFit	LAZO, Alfonso LAZO, Alfonso
5:10 PM	Update on sensitivity to atmospheric oscillation parameters	CARRETERO, Victor CARRETERO CUENCA, Víctor
5:30 PM	Interactive oscillograms with JOscProb	JUNG, Bouke

Tuesday, October 25, 2022

ANTARES - Astronomy (9:00 AM - 11:00 AM)

-Conveners: Dorothea Samtleben; Thomas Eberl; Francisco Salesa

time	title	presenter
9:00 AM	WG overview	SAMTLEBEN, Dorothea SALESAS, Francisco EBERL, Thomas
9:20 AM	Maring sources analysis update	ALVES, Sergio ALVESGARRE, Sergio
9:40 AM	Gravitational Waves analysis update	LAMOUREUX, Mathieu
10:00 AM	Galactic Plane analysis update	FILIPPINI, Francesco LAMOUREUX, Mathieu FILIPPINI, francesco
10:20 AM	MBI analysis update (REMOTE)	AUBLIN, Julien

Coffee Break (11:00 AM - 11:30 AM)

ANTARES - Dark Matter and Particle Physics (11:30 AM - 12:00 PM)

-Conveners: Sara Rebecca Gozzini; Miguel Ardid

time	title	presenter
11:30 AM	WG Overview	ARDID, Miguel GOZZINI, Sara Rebecca
11:40 AM	Single line reconstruction using deep learning and first use for physics analyses	GARCÍA MÉNDEZ, Juan

WG: Astromomy (12:00 PM - 1:00 PM)

-Conveners: Giulia Illuminati; Damien DORNIC

time	title	presenter
12:00 PM	Summary of the astro WG activities	DORNIC, Damien ILLUMINATI, Giulia
12:20 PM	ARCA6-8 astro analyses	FILIPPINI, Francesco MULLER, Rasa TSOURAPIS, Vasileios
12:40 PM	ARCA19 first view of the data	VAN EEDEN, Thijs
12:50 PM	Update of CCSN analyses	BENDAHDAN, Meriem EL HEDRI, Sonia

Lunch (1:00 PM - 2:00 PM)

WG: Astromomy (2:00 PM - 3:00 PM)

-Conveners: Giulia Illuminati; Damien DORNIC

time	title	presenter
2:00 PM	ARCA-ORCA IC alert follow-ups	PALACIOSGONZALEZ, Juan

2:15 PM	ARCA-ARCA online analysis framework	ZEGARELLI, Angela
2:35 PM	Online physics shift	DORNIC, Damien
2:50 PM	Discussion	

KM3NeT IB Meeting (3:00 PM - 6:00 PM)

-Conveners: Uli Katz; Uli Katz

WG: Online (3:00 PM - 6:00 PM)

<https://cern.zoom.us/j/66905072052?pwd=U2prZGo0aU9XTUg2czQvSGdpem1rZz09>

-Conveners: Silvia Celli

time	title	presenter
3:00 PM	ARCA19-21 analysis group discussion	
4:00 PM	Online physics analysis discussion	

Wednesday, October 26, 2022

ANTARES report (9:00 AM - 9:30 AM)

- Presenter: KOUCHNER, Antoine David

KM3NeT report (9:30 AM - 10:00 AM)

- Presenters: COYLE, Paschal Anthony; COYLE, Paschal

Detector Operation: ARCA and ORCA (10:00 AM - 10:30 AM)

- Presenters: ENZENTHÖFER, Alexander; ENZENTHÖFER, Alexander; PIATTELLI, Paolo

Coffee Break (10:30 AM - 11:00 AM)

KM3NeT technical report (11:00 AM - 11:45 AM)

- Presenter: LINDSEY CLARK, Miles

KM3NeT physics report (11:45 AM - 12:05 PM)

- Presenters: HEIJBOER, Aart; HEIJBOER, aart

KM3NeT outreach report (12:05 PM - 12:15 PM)

- Presenters: DE WASSEIGE, Gwenhael; CIRCELLA, Marco

Sea Operation ORCA (12:15 PM - 12:35 PM)

- Presenter: LUMB, Nicholas

Sea Operation ARCA (12:35 PM - 12:55 PM)

- Presenters: BIAGI, Simone; BIAGI, Simone

Collaboration picture (12:55 PM - 1:05 PM)

Lunch (1:05 PM - 2:05 PM)

KM3NeT IB report (2:05 PM - 2:15 PM)

- Presenters: KATZ, Uli; KATZ, Uli

KM3NeT PC report (2:15 PM - 2:25 PM)

- Presenter: MARGIOTTA, Annarita

KM3NeT CC report (2:25 PM - 2:35 PM)

- Presenters: MARKOU, Christos; MARKOU, Christos

KM3NeT OSC report (2:35 PM - 2:45 PM)

- Presenter: SCHNABEL, Jutta

KM3NeT EDI report (2:45 PM - 3:00 PM)

- Presenters: TZAMARIOUDAKI, Aikaterini; TZAMARIOUDAKI, Ekaterini; VAN ELEWYCK, Véronique

ECONOMIC FITNESS: CONCEPTS, METHODS, APPLICATIONS AND FUTURE CHALLENGES (3:00 PM - 3:45 PM)

- Presenter: PIETRONERO, Luciano

Coffe break (3:45 PM - 4:15 PM)**The impact of radioastronomy on the multi-messenger astronomy (4:15 PM - 5:00 PM)**

- Presenter: TRIGILIO, Corrado

WG: Data Processing and Data Quality (5:00 PM - 6:00 PM)

-Conveners: Luigi Fusco; Alba Domi; Luigi Antonio Fusco; Alba Domi; Luigi Antonio Fusco

time	title	presenter
5:00 PM	Overview of the DPDQ activities	DOMI, Alba FUSCO, Luigi Antonio
5:25 PM	Status on the JShowerFit processing	LASTORIA, Chiara F CERISY, luc CERISY, luc
5:45 PM	Sirene water properties comparisons for ARCA	ZARPAPIS, Giorgos

Collaboration dinner (8:30 PM - 11:30 PM)

Thursday, October 27, 2022

WG: Calibration (9:00 AM - 10:30 AM)

-Conveners: Dorothea Samtleben; Robert Lahmann

time	title	presenter
9:00 AM	Calibration overview	SAMTLEBEN, Dorothea LAHMANN, R. LAHMANN, Robert
9:15 AM	Position calibrations	MARTIN, Lilian MARTIN, Lilian
9:35 AM	Dynamic calibration	GATIUS OLIVER, Clara
9:50 AM	Nanobeacon	PALACIOSGONZALEZ, Juan
10:10 AM	Compass in-situ calibration	SAINA, Adrian

Coffee Break (10:30 AM - 11:00 AM)

WG: Computing & Software (11:00 AM - 12:20 PM)

-Conveners: Kay Graf; Mieke Bouwhuis; Kay Graf

time	title	presenter
11:00 AM	Status Software&Computing	GRAF, Kay BOUWHUIS, Mieke
11:20 AM	Data processing concept and workflows	PESTEL, Valentin
11:45 AM	Online file mergers	JUNG, Bouke
12:00 PM	The KM3NeT DB - Status report	BOZZA, Cristiano BOZZA, Cristiano
12:15 PM	Wiki	SCHNABEL, Jutta

Lunch (12:20 PM - 1:15 PM)

ANTARES IB meeting (1:15 PM - 3:15 PM)

-Conveners: Annarita Margiotta

Electronics (1:15 PM - 1:45 PM)

- Presenters: REAL, Diego; REAL, Diego

Power (1:45 PM - 2:15 PM)

- Presenters: COCIMANO, Rosanna; NICOLAU, Carlo Alessandro; NICOLAU, CarloAlessandro; NICOLAU, Carlo Alessandro

Optics (2:15 PM - 2:45 PM)

- Presenters: SCHMELLING, Jan-Willem; PULVIRENTI, Sara Rita

Mechanics (2:45 PM - 3:15 PM)

- Presenter: BERBEE, Edward

Coffee Break (3:15 PM - 3:45 PM)**System engineering (3:45 PM - 4:05 PM)**

- Presenters: BUIS, Ernst-Jan; BUIS, Ernst-Jan; BUIS, Ernst-Jan; BUIS, ernst-jan

QA/QC (4:05 PM - 4:25 PM)

- Presenter: PARIES, Céline

WG: Data Acquisition (4:25 PM - 5:25 PM)

-Conveners: Emidio Maria Giorgio; Tommaso Chiarusi; Tommaso Chiarusi; Emidio Giorgio

time	title	presenter
4:25 PM	DAQ-Readout introduction	GIORGIO, Emidio Maria CHIARUSI, Tommaso
4:40 PM	Control Unit - a status report	BOZZA, Cristiano BOZZA, Cristiano
4:55 PM	Consideration on the WWRS DAQ implementation	BENFENATI, Francesco

Visit to Museum of Physics at Enrico Fermi Study and Research Center (CREF) (5:30 PM - 7:00 PM)

Friday, October 28, 2022

WG: DOM Integration (9:00 AM - 10:30 AM)

-Conveners: Daniele Vivolo

time	title	presenter
9:00 AM	DOM Integration Overview	VIVOLO, Daniele
9:30 AM	DOM Integration sites updates	BAGATELAS, Christos VIVOLO, Daniele LEONORA, Emanuele CARDUNER, Herve REA, Immacolata Carmen BOUMAAZA, Jihad KALEKIN, Oleg BRUIJN, Ronald KIHIL, Safia
10:10 AM	WWWRS DOM updates	VIVOLO, Daniele

WG: BM integration (10:30 AM - 11:20 AM)

-Conveners: Irene Sgura; Irene Sgura

Coffee Break (11:20 AM - 11:50 AM)

WG: DU Integration (11:50 AM - 1:10 PM)

-Conveners: Daan Van Eijk; Carlos Maximiliano Mollo

time	title	presenter
11:50 AM	General DU Production Report	MOLLO, Carlos Maximiliano VAN EIJK, Daan
12:20 PM	RMHef Update	VAN EIJK, Daan
12:25 PM	CMen Update	PERRONNEL, Jerome
12:30 PM	CMPPM Update	MARINI, AURELIEN
12:35 PM	CMnova Update	KULIKOVSKIY, Vladimir KULIKOVSKIY, Vladimir
12:40 PM	CMserta Update	SIMONELLI, Andreino MIGLIOZZI, Pasquale MIGLIOZZI, Pasquale MIGLIOZZI, Pasquale
12:45 PM	CMNS Update	SAPIENZA, Piera SAPIENZA, Piera SAPIENZA, Piera SAPIENZA, Piera
12:50 PM	CM DIA Update	LEVI, Giuseppe

Lunch (1:10 PM - 2:10 PM)