

(Online) Collaboration Meeting

Monday, February 8, 2021 - Friday, February 19, 2021

Program

Monday, February 8, 2021

astronomy working group: astronomy & multi-messenger (9:00 AM - 12:20 PM)

-Conveners: Damien DORNIC

time	[id] title	presenter
9:00 AM	[M1] Introduction of the astronomy group	DORNIC, Damien
9:15 AM	[M4] Overview on HE reconstruction ARCA	VAN EEDEN, Thijs
9:30 AM	[M5] Event classification with ARCA	DOMI, Alba
9:45 AM	[M5] SWIM for ARCA and Absorption tomography	MADERER, Lukas
10:00 AM	[M6] Reconstruction of nu-e CC ARCA events using timing information	SENECA, Jordan
10:10 AM	Break	
10:25 AM	[M7] Update PS analysis	MULLER, Rasa
10:40 AM	[M6] New up-going neutrino selection and diffuse analysis	GARCIA SOTO, Alfonso Andres
11:00 AM	[M8] Aanet tools for point source with extension and first results of extended point source studies with ARCA	CAIFFI, Barbara SANGUINETI, Matteo
11:20 AM	[M9] ARCA sensitivity to transient sources: perspectives	PALACIOSGONZALEZ, Juan
11:35 AM	[M0] Update starburst galaxy analysis	IDRISSI IBNSALIH, Walid

cosmic rays: working group (12:35 PM - 2:35 PM)

-Conveners: Ronald Bruijn; Ronald Bruijn

time	[id] title	presenter
12:35 PM	[P9] Introduction	BRUIJN, Ronald
12:50 PM	[P10] Mupage tuning update	Ó FEARRAIGH, Brían
1:10 PM	[P09] CORSIKA and MUPAGE comparison at different depths at generation level	ROMANOV, Andrey
1:30 PM	[P101] Prompt Muon Analysis & CORSIKA productions	KALACZYNSKI, Piotr

reserved for MT meeting (3:00 PM - 5:00 PM)

Tuesday, February 9, 2021

oscillations: working group (9:00 AM - 12:00 PM)

-Conveners: Juergen Brunner

time	[id] title	presenter
9:00 AM	[M8] Introduction	BRUNNER, Juergen
9:20 AM	[M9] Atmospheric Neutrinos with ORCA4	ALY, Zineb
9:40 AM	[M1] Energy resolution impact in MONA	PESTEL, Valentin
10:00 AM	[M0] ORCA oscillation analysis with MONA	NAUTA, Lodewijk
10:20 AM	[M1] Reconstructing events as track + shower	Ó FEARRAIGH, Brían

simulations (1:00 PM - 3:00 PM)

time	[id] title	presenter
1:00 PM	[M9] Introduction	DISTEFANO, Carla
1:10 PM	[M0] new gSeaGen version	GARCIA SOTO, Alfonso Andres
1:30 PM	[M1] processig of Corsika files with gSeaGen	KALACZYNSKI, Piotr
1:50 PM	[M2] KM3BUU data analysis and package updates	SCHUMANN, Johannes
2:10 PM	[M3] Framework in Jpp to combine different Monte-Carlo files	JUNG, Bouke
2:25 PM	[M4] Muon Contribution from D Decay	JAMES, Clancy O'SULLIVAN, Mitchell
2:40 PM	[M5] Discussion	

Wednesday, February 10, 2021

dark matter & exotics: working group (9:00 AM - 12:00 PM)

-Conveners: Miguel Ardid; Sara Rebecca Gozzini; Yahya Tayalati

time	[id] title	presenter
9:00 AM	[M5] Short introduction	ARDID, Miguel GOZZINI, Sara Rebecca TAYALATI, Yahya
9:10 AM	[M9] Galactic WIMP search using ON-/OFF-source method at ORCA	WOJACZYNSKI, Rafal
9:30 AM	[M0] Search for DM in the GC with ARCA and Machine Learning applications	PIETERSE, Camiel PIETERSE, Camiel
9:50 AM	[M6] Solar atmospheric neutrinos with ANTARES	LOPEZ COTO, Daniel LÓPEZ COTO, Daniel
10:10 AM	[M7] Dark matter search in the Sun with ANTARES	POIRÈ, Chiara
10:30 AM	[M8] Galactic centre WIMPs + ANITA events	GOZZINI, Sara Rebecca
10:50 AM	[M9] Nuclearites search with ANTARES	BOUTA, Mohammed BOUTA, Mohammed
11:10 AM	[M0] Search for Magnetic Monopoles with ten years of ANTARES data	BOUMAAZA, Jihad BOUMAAZA, Jihad

astronomy working group (1:00 PM - 3:00 PM)

-Conveners: Damien DORNIC

time	[id] title	presenter
1:00 PM	[M2] Update on the online analysis with ORCA	HUANG, Feifei
1:20 PM	[M1] ORCA neutrino selection	LE STUM, Sebastien
1:35 PM	[M3] ORCA noise studies	BENDAHMAN, Meriem
1:50 PM	[M2] ORCA noise studies (part 2)	DE WASSEIGE, Gwenhaël
2:05 PM	[M4] ARCA / IceCube comparison	DE WASSEIGE, Gwenhaël
2:20 PM	[M5] Neutrinos from choked GRBs	CELLI, Silvia
2:35 PM	[M3] Prospect for the low-energy neutrino detection from GRBs	ZEGARELLI, Angela

DU analysis, processing, operations (3:00 PM - 5:00 PM)

time	[id] title	presenter
3:00 PM	[M3] Report on ARCA operations	PIATTELLI, Paolo
3:10 PM	[M4] Report on ORCA operations	ENZENHÖFER, Alexander
3:20 PM	[M5] Data and Monte Carlo processings	FUSCO, Luigi Antonio
3:30 PM	[M2] ARCA data/MC studies	CONIGLIONE, rosa
3:45 PM	[M2] ORCA 6 data and MC analysis	ALY, Zineb ALY, zineb
4:00 PM	[M6] Atmospheric neutrinos with ORCA4 and a first look on ORCA6 data	STAVROPOULOS, Dimitris
4:15 PM	[M8] ORCA6 Data Analysis Update	PAPALASHVILI, Gogita PAPALASHVILI, Gogita
4:30 PM	[M4] Sparking DOMs studies	PESTEL, Valentin

4:45 PM [18] Sea-current effects on ORCA6 MC

ZAVATARELLI, Sandra Maria
ZAVATARELLI, sandra

Thursday, February 11, 2021

software and computing: working group (9:00 AM - 12:00 PM)

time	[id] title	presenter
9:00 AM	General Topics	
9:05 AM	[M0] WG Overview	GRAF, Kay
9:35 AM	[M1] DB Status	BOZZA, Cristiano BOZZA, Cristiano BOZZA, Cristiano
9:55 AM	[M2] Jpp Status	DE JONG, Maarten
10:20 AM	[M0] KM3Py Overview	GAL, Tamas
10:35 AM	[M19] New design for simulations using km3net-dataformat	GARCIA SOTO, Alfonso Andres
10:50 AM	Taskforce on Current Mass Productions	
10:55 AM	Taskforce on Workflow Management and Distributed Computing	
11:00 AM	[M3] Progress on distributed data processing	SCHNABEL, Jutta BOUWHUIS, Mieke G. RUIZ, Rodrigo GAL, Tamas KULIKOVSKIY, Vladimir
11:25 AM	[M4] Discussion	

ECS meeting: <https://u-paris.zoom.us/j/84646100813?pwd=Y0NSREI3czFGLzZM5U0xPU242dzU3QT09> (12:00 PM - 1:00 PM)

Data acquisition and Electronics WGs: working group (1:00 PM - 3:00 PM)

Link to Minutes https://docs.google.com/document/d/1e4fjMe9XdZ__5dOOJaCKDc2IXyO_2K5uAsU9HuqCu_o

time	[id] title	presenter
1:00 PM	[M3] DAQ introductory overview	CHIARUSI, Tommaso
1:20 PM	[M8] Electronics WG overview	REAL, Diego
1:40 PM	[M4] Control Unit status	BOZZA, Cristiano BOZZA, Cristiano
2:00 PM	[M5] Docker container for DAQ software	ZITO, Daniele GIORGIO, Emidio Maria
2:20 PM	[M6] The OctoPAES board at the BCI	FILIPPINI, Francesco
2:40 PM	[M7] The Full-WR validation test-bench at BCI	BENFENATI, Francesco

calibration: working group (3:00 PM - 5:20 PM)

time	[id] title	presenter
3:00 PM	[M11] Calibration overview	SAMTLEBEN, Dorothea LAHMANN, R.

3:05 PM	[M12] Dynamic position & orientation calibration	DE JONG, Maarten
3:20 PM	[M13] Using the JPP tools for the acoustic positioning	MARTIN, Lilian MARTIN, Lilian
3:40 PM	[M20] DU. line fit	DIEGO-TORTOSA, Dídac
3:55 PM	[M15] Nanobeacon update	PIETERSE, Camiel PIETERSE, Camiel
4:10 PM	[M14] Gain/efficiency evaluations	FERMANI, Paolo FERMANI, Paolo
4:25 PM	[M22] Compass tools	DARQUEA, Bryan
4:35 PM	[M16] Compass calibration assistant	BOZZA, Cristiano BOZZA, Cristiano
4:45 PM	[M18] Cetacean detection	GUIDI, Carlo GUIDI, Carlo
5:00 PM	[M17] Marine mammal whistle detection	BOU CABO, Manuel

Friday, February 12, 2021

dom integration: working group (9:00 AM - 11:00 AM)

time	[id] title	presenter
9:00 AM	[M23] Opening and overview	VIVOLO, Daniele
9:20 AM	[M24] Reports from DOM Integration sites: milestones, achievements, mid/short-term plans	MOLLO, Carlos Maximiliano BAGATELAS, Christos LEONORA, Emanuele CARDUNER, Herve BOUMAAZA, Jihad KALEKIN, Oleg BRUIJN, Ronald KIHHEL, Safia
10:20 AM	[M25] Zoom in: DOM Testing Environment	PESTEL, Valentin
10:40 AM	[M26] The Compass Calibration Assistant for DOM Testing	BOZZA, Cristiano
10:55 AM	[M27] Closing remarks	VIVOLO, Daniele

DU Production: working group (11:35 AM - 1:35 PM)

time	[id] title	presenter
11:35 AM	[M25] DU Production Status Amsterdam	BRUIJN, Ronald
11:55 AM	[M26] DU Production Status Marseille	ENZENHÖFER, Alexander ENZENHÖFER, Alexander HENRY, Sylvain
12:15 PM	[M27] DU Production Status Genova	ANGHINOLFI, Marco ANGHINOLFI, Marco KULIKOVSKIY, Vladimir
12:35 PM	[M28] DU Production Status Caserta	MOLLO, Carlos Maximiliano MIGLIOZZI, Pasquale MIGLIOZZI, Pasquale MIGLIOZZI, Pasquale
12:55 PM	[M29] DU Production Status Catania	SAPIENZA, Piera SAPIENZA, Piera SAPIENZA, Piera

Machine learning: <https://fau.zoom.us/j/95255847285?pwd=Nk50R3Zqa2J2anA1VERGNVY2LzAxdz09> (2:00 PM - 4:10 PM)

-Conveners: Thomas Eberl

time	[id] title	presenter
2:00 PM	[M41] Introduction	EBERL, Thomas
2:10 PM	[M46] ML-based direction estimate for ANTARES single-line events	GARCIA, Juan ARDID, Miguel ARDID, Salva
2:30 PM	[M46] Muon multiplicity reconstruction	KALACZYNSKI, Piotr
2:50 PM	[M47] Deep-learning muon bundle reconstruction for CORSIKA events	RECK, Stefan
3:10 PM	[M47] Graph Neural Networks for neutrino analysis	GUDERIAN, Daniel
3:30 PM	[M42] Update on GNNs for ORCA with pyTorch	VERMARIËN, Gijs

3:50 P	[M13] GNN classification for ARCA	DOMI, Alba
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Base Module integration: working group (2:25 PM - 4:00 PM)

time	[id] title	presenter
2:25 P	[M140] Introduction	SGURA, Irene
2:30 P	[M128] Status at CPPM	MARINI, AURELIEN
2:45 P	[M129] Status at Montpellier	MARINI, AURELIEN RIVOIRE, Stephane
2:55 P	[M130] Status at Valencia	REAL, Diego
3:00 P	[M143] Status at Oujda	EL BOJADDAINI, Imad
3:05 P	[M131] Status at Bologna	MARGIOTTA, Annarita
3:15 P	[M133] Status at Caserta	MOLLO, Carlos Maximiliano
3:35 P	[M134] Status at LNS	LA ROSA, Giusi
3:40 P	[M142] BM DIA	LEVI, Giuseppe LEVI, Giuseppe

Monday, February 15, 2021

plenary opening session (9:00 AM - 2:30 PM)

time	[id] title	presenter
9:00 AM	[13] ANTARES report	KOUCHNER, Antoine David
9:30 AM	[14] KM3NeT new MT introduction	KATZ, Uli
9:40 AM	[15] KM3NeT report	COYLE, Paschal Anthony
10:00 AM	[19] operations - ANTARES + KM3NeT	ENZENHÖFER, Alexander PIATTELLI, Paolo
10:25 AM	[20] KM3NeT technical overview	LINDSEY CLARK, Miles
11:10 AM	[20] Physics plans	HEIJBOER, aart
11:20 AM	[21] outreach	

Tuesday, February 16, 2021

summary reports (9:00 AM - 10:20 AM)

time	[id] title	presenter
9:00 AM	[11] sea operations France	LAMARE, Patrick
9:20 AM	[12] sea operations Italy	BIAGI, Simone
9:40 AM	[14] report from conference committee	VAN ELEWYCK, Veronique
9:50 AM	[15] report form PC	PIATTELLI, Paolo

ANTARES topics (10:35 AM - 1:00 PM)

time	[id] title	presenter
10:35 AM	[102] Neutrino astronomy WG report	SAMTLEBEN, Dorothea SALESA, Francisco EBERL, Thomas SPURIO, maurizio AUBLIN, Julien PLAVIN, Alexander
11:15 AM	[103] Dark Matter and Particle Physics WG report	ARDID, Miguel TAYALATI, Yahya
11:35 AM	[104] Discussion (Conferences, Public Plots)	
11:55 AM	[105] ANTARES Public data release	NERONOV, Andrii
12:10 PM	[106] Measurement of the electron-positron spectrum in the 10-100 TeV range	NERONOV, Andrii
12:30 PM	[107] Calibration WG report	SÁNCHEZ LOSA, Agustín
12:40 PM	[108] Analysis tool WG report	SCHÜSSLER, Fabian EBERL, Thomas
	- [1] JGandalf reconstruction for ANTARES	HAMMER, Maarten

KM3NeT institute board (2:00 PM - 5:00 PM)

See agenda on <https://indico.cern.ch/event/1006668/>

Wednesday, February 17, 2021

news from the Institute Board (9:00 AM - 9:15 AM)

summary reports (9:15 AM - 11:20 AM)

time	[id] title	presenter
9:15 AM	[8] report from Dark Matter Group	GOZZINI, Sara Rebecca
9:45 AM	[6] Report From Astronomy Group	DORNIC, Damien
10:15 AM	[7] Report from Oscillations Group	BRUNNER, Juergen
10:40 AM	[81] Measurement of deltaCP with Tagged P2O	PERRIN-TERRIN, Mathieu

summary reports (11:30 AM - 12:55 PM)

time	[id] title	presenter
11:30 AM	[14] Report from Cosmic Ray Group	BRUIJN, Ronald
11:55 AM	[8] Report Electronics	REAL, Diego
12:15 PM	[9] Report on Power System	COCIMANO, Rosanna
12:35 PM	[10] Report on Optical System	D'AMICO, Antonio

Thursday, February 18, 2021

summary reports (9:00 AM - 10:15 AM)

time	[id] title	presenter
9:00 AM	[11] Report from Software Group	GRAF, Kay
9:25 AM	[12] report from Data Acquisition Group	CHIARUSI, Tommaso
9:45 AM	[13] Report from Simulations Group	DISTEFANO, Carla

summary reports (10:30 AM - 12:00 PM)

time	[id] title	presenter
10:30 AM	[15] Report from Calibrations Group	
10:55 AM	[16] report from DU analysis working group	

ANTARES IB (12:00 PM - 1:00 PM)

-Conveners: Annarita Margiotta

Friday, February 19, 2021

summary reports (9:00 AM - 11:25 AM)

time	[id] title	presenter
9:00 AM	[10] report on PMTs	MIGLIOZZI, Pasquale
9:15 AM	[19] Report DOM Integration	VIVOLO, Daniele
9:40 AM	[11] Report Base Module Integration	SGURA, Irene
10:05 AM	[20] report DU integration	VAN EIJK, Daan
10:30 AM	[18] Report on Quality Assurance and Quality Control	ANDROULAKIS, Giorgos

social activity (11:25 AM - 12:55 PM)

time	[id] title	presenter
11:25 AM	[14] Can you beat the management?	
12:10 PM	[15] Who did it?	