

XIX International Workshop on Neutrino Telescopes

Monday, 22 February 2021

New Facilities: (Room 1) - Room 1 (11:35 - 12:35)

-Conveners: Andrea Longhin; Christian Farnese

| time | [id] title | presenter |
|-------|--|-------------------|
| 11:35 | [212] Study of SIPMs for the JUNO-TAO detector | LOMBARDO, Claudio |
| 11:40 | [186] JUNO OSIRIS Online Trigger | Mr LIU, Runxuan |
| 11:45 | [222] Delta Rays: A Novel Calibration for the Deep Underground Neutrino Experiment (DUNE) for Low Energy Astrophysical Neutrinos | DVORNIKOV, Olexiy |
| 11:50 | [176] Measuring the proton-argon cross-section at ProtoDUNE-SP | Dr LIAO, Heng-Ye |
| 11:55 | Discussion Time | |
| 12:05 | [188] Optimization of the Target Station for the ESSnuSB Project Using the Genetic Algorithm | D'ALESSI, Loris |
| 12:10 | [228] Prospects of building an accelerator-based neutrino oscillation experiment in China | VIHONEN, Sampsa |
| 12:15 | [271] Probing the second oscillation maximum at DUNE | MASUD, Mehedi |
| 12:20 | Discussion Time | |

New Facilities: (Room 1) - Room 1 (17:30 - 18:30)

-Conveners: Fabio Pupilli; Chiara Sirignano

| time | [id] title | presenter |
|-------|--|-----------------------------|
| 17:30 | [125] Capabilities of the DUNE Near Detector Complex | Dr MOHAYAI, Tanaz Angelina |
| 17:50 | [257] Physics potential of THEIA: a hybrid optical neutrino experiment | GUFFANTI, Daniele |
| 18:10 | [229] JUNO Detector Design & Status | STEIGER, Hans Theodor Josef |

Tuesday, 23 February 2021

New Facilities: (Room 2) - Room 2 (17:30 - 18:30)

-Conveners: Luca Stanco; Andrea Longhin

| time | [id] title | presenter |
|-------|---|------------------------|
| 17:30 | [129] The GRAND observatory: Status and Future plans | TIMMERMANS, Charles |
| 17:50 | [122] Modeling the background for a neutrino search with the HAWC observatory | LEÓN VARGAS, Hermes |
| 18:10 | [274] The Pacific Ocean Neutrino Explorer | Dr DANNINGER, Matthias |

Wednesday, 24 February 2021

New Facilities: (Room 2) - Room 2 (11:35 - 12:35)

-Conveners: Gianmaria Collazuol; Marco Grassi

| time | [id] title | presenter |
|-------|--|----------------------------|
| 11:35 | [126] Search for exotic pion decays | Dr CUEN-ROCHIN, Saul |
| 11:40 | [173] Study of Ocean Bottom Detector for observation of geo-neutrinos from mantle | Mr SAKAI, Taichi |
| 11:45 | [217] Overview of the Planned Surface Enhancement of IceCube | TURCOTTE, Roxanne |
| 11:50 | [262] Pacific Ocean Neutrino Experiment (P-ONE): pathfinder and prototype line development | SPANNFELLNER, Christian |
| 11:55 | Discussion Time | |
| 12:05 | [182] Measuring the proton Zemach radius with the FAMU experiment at RIKEN-RAL | BONESINI, Maurizio Giorgio |
| 12:10 | [175] Surprising Muon and Tau Airshower from Earth edges and Moon | OLIVA, Pietro |
| 12:15 | [270] Toward the detection of UHE neutrinos with the Cherenkov Telescope on EUSO-SPB2 | GAZDA, Eliza |
| 12:20 | [197] The Liquid Scintillator for JUNO | MONTUSCHI, Michele |
| 12:25 | Discussion Time | |

New Facilities: (Room 3) - Room 3 (17:30 - 18:30)

-Conveners: Luca Stanco; Mauro Mezzetto

| time | [id] title | presenter |
|-------|---|-----------------|
| 17:30 | [59] POEMMA: Probe Of Extreme Multi-Messenger Astrophysics | KRIZMANIC, John |
| 17:50 | [114] Neutrino Target-of-Opportunity Observations with POEMMA | VENTERS, Tonia |
| 18:10 | [148] A Compact Air-Shower Imaging System for Ultrahigh-Energy Neutrino Detection | DORO, Michele |

Thursday, 25 February 2021

New Facilities: (Room 3) - Room 3 (10:00 - 11:20)

-Conveners: **Francesco D'Eramo; Fabio Pupilli**

| time | [id] title | presenter |
|-------|---|----------------------|
| 10:00 | [22] Muon Ionization Cooling Experiment: results & prospects. | LORD, Tom |
| 10:20 | [99] Status of the ENUBET monitored neutrino beam | TERRANOVA, Francesco |
| 10:40 | [241] NuSTORM accelerator challenges and opportunities | ROGERS, Chris |
| 11:00 | [232] ESSnuSB progress on the design of the near and far neutrino detectors and the simulation of the physics potential | BOGOMILOV, Mariyan |

New Facilities: (Room 2) - Room 2 (17:30 - 18:30)

-Conveners: **Mauro Mezzetto; Fabio Pupilli**

| time | [id] title | presenter |
|-------|---|-----------------------|
| 17:30 | [147] Potential of neutrino physics with DARWIN | TERLIUK, Andrii |
| 17:50 | [158] A High Intensity Frontier Initiative (HIFI) to design a nuSTORM facility and a Neutrino Factory based on the ESSnuSB facility | DELAHAYE, Jean-Pierre |
| 18:10 | [246] Physics opportunities at nuSTORM | Dr ALVAREZ-RUSO, Luis |

Friday, 26 February 2021

New Facilities: (Room 2) - Room 2 (10:00 - 11:20)

-Conveners: Mathieu Lamoureux; Christian Farnese

| time | [id] title | presenter |
|-------|---|--------------------|
| 10:00 | [17] RES-NOVA: archaeological Pb observatory for astrophysical neutrino sources | PATTAVINA, Luca |
| 10:20 | [163] Neutrinos as signal and background in the search for dark matter with INO | TIWARI, Deepak |
| 10:40 | [145] JUNO-TAO: Status and Prospects | PETRUCCI, Fabrizio |
| 11:00 | [190] Dark Photon Search at Yemilab, Korea | SEO, Sunny |

New Facilities: (Room 2) - Room 2 (11:35 - 12:35)

-Conveners: Mathieu Lamoureux; Christian Farnese

| time | [id] title | presenter |
|-------|---|--------------------------|
| 11:35 | [112] The ENUBET beamline | DELOGU, Claudia Caterina |
| 11:40 | [78] Calibrating the world's largest LArTPC detector | FANÌ, Mattia |
| 11:45 | [108] Physics prospects of second oscillation maximum at the Deep Underground Neutrino Experiment | ROUT, Jogesh |
| 11:50 | [121] Physics potential with the DUNE ND-GAr detector | BATTISTI, Federico |
| 11:55 | Discussion Time | |
| 12:05 | [170] Simulation of low-energy neutron events at ProtoDUNE-SP | HUANG, Junying |
| 12:10 | [143] Long-baseline tagged neutrino experiments with megaton scale water Cerenkov detectors | PERRIN-TERRIN, Mathieu |
| 12:15 | [149] Event Reconstruction in JUNO | Dr KAMPMANN, Philipp |
| 12:20 | [168] ESSnuSB progress on the design of the ESS linac power upgrade and the accumulator ring | ZOU, Ye |
| 12:25 | Discussion Time | |