

XIX International Workshop on Neutrino Telescopes

Thursday 18 February 2021

Welcome - <https://youtu.be/Fe6cZMsslqQ> (14:00-14:40)

-Conveners: **Giuseppina Salente**

time	title	presenter
14:00	Welcome to the Neutrino Telescopes Workshop	MEZZETTO (CHAIRPERSON), Mauro
14:10	Padova University	RIZZUTO , Rosario
14:20	Istituto Nazionale Fisica Nucleare	ZOCCOLI, Antonio
14:30	Physics and Astronomy Department, Padova	SENO, Flavio
14:35	INFN, Sezione di Padova	BROGGINI, Carlo

Opening Plenary Session: (1) - <https://youtu.be/Fe6cZMsslqQ> (14:40-16:00)

-Conveners: **Elisa Bernardini**

time	title	presenter
14:40	The past and the future of neutrino science	GLASHOW, Sheldon
15:00	Experimental searches of neutrino anomalies	RUBBIA, Carlo
15:30	Gravitational waves: where do we stand and future facilities	BARISH, Barry

Coffee Break (16:00-16:15)

Opening Plenary Session: (2) - <https://youtu.be/Fe6cZMsslqQ> (16:15-17:45)

-Conveners: **Luca Stanco**

time	title	presenter
16:15	High Energy Neutrino Astronomy	HALZEN, Francis
16:45	Cosmology, the present landscape	KAMIONKOWSKI , Marc
17:15	10^{27} , 10^{28} , 10^{29} ? The future of double beta decays	FERRONI, Fernando

Coffee Break (18:15-18:30)

Friday 19 February 2021

Cross Sections - Room 1 (10:00-11:20)

-Conveners: **Filippo Varanini; Fabio Pupilli**

time	title	presenter
10:00	Measuring cross-sections of high-energy neutrinos with FASERnu at the LHC	TAKUBO, Yosuke
10:20	Probing nuclear effects in neutrino $\text{CC}\bar{\nu}^+$ interactions with transverse kinematic imbalance measurement in T2K	TSUI, Ka Ming
10:40	First constraints on coherent elastic neutrino-nucleus scattering at reactor site with the CONUS experiment	BONHOMME, Aurélie
11:00	Recent results: Hadron production measurements for neutrino oscillation experiments at NA61/SHINE	RUMBERGER, Brant

Low Energy Neutrinos - Room 2 (10:00-11:20)

-Conveners: **Luca Stanco; Chiara Sirignano**

time	title	presenter
10:00	Constraining sterile neutrinos by core-collapse supernovae with multiple detectors	TANG, Jian
10:20	Supernova Model Discrimination with Hyper-Kamiokande	MIGENDA, Jost
10:40	Recent results from XENON1T and multi-messenger future of XENONnT	PERES, Ricardo
11:00	How the CNO neutrinos detection can unravel the solar metallicity problem?	BASILICO, Davide

Non Standard Interactions - Room 3 (10:00-11:20)

-Conveners: **Giuseppina Salente; Francesco D'Eramo**

time	title	presenter
10:00	Possible indication of non-standard neutrino interactions from NOvA and T2K	PALAZZO, Antonio
10:20	Sterile neutrinos properties in the inverse seesaw with Abelian flavour symmetries	JOAQUIM, Filipe
10:40	New Physics in the Lepton sector from future Neutrino experiments	MELONI, Davide
11:00	"HENEutrinos beyond Standard Model: steriles and secret interactions	SAVIANO, Ninetta

Coffee Break (11:20-11:35)

Non Standard Interactions: (Flash) - Room 3 (11:35-12:30)

-Conveners: **Giuseppina Salente; Francesco D'Eramo**

time	title	presenter
11:35	Enhanced violation of Leggett-Garg Inequality in three flavour neutrino oscillations via non-standard interactions	SHAFQAQ, Sheeba
11:40	Radiative decays of charged leptons as constraints of leptonic unitarity	ZHANG, Di
11:45	Constraints on neutrino non-standard interactions: From neutrino oscillations to precision cosmology	DU, Yong
11:50	A closer look at the pp-chain reaction in the Sun: Constraining the coupling of light mediators to protons	SULIGA, Anna M.
11:55	Discussion Time (10 minutes)	

12:05	Constraints on neutrino electromagnetic properties from COHERENT elastic neutrino-nucleus scattering	ZHANG, Yiyu
12:10	Neutrino physics in extended theories of gravity	PETRUZZIELLO, Luciano
12:15	Constraints on light vector mediators through COHERENT data	PICCIAU, Emmanuele
12:20	Discussion Time (10 minutes)	

Low Energy Neutrinos: (Flash) - Room 2 (11:35-12:35)

-Conveners: Marco Grassi; Chiara Sirignano

time	title	presenter
11:35	Data analysis of a low-polonium-field for the discovery of CNO neutrinos	GÖTTEL, Alexandre
11:40	A successful strategy for the CNO measurement with Borexino: the MultiVariate Fit	RE, Alessandra Carlotta
11:45	Solar Antineutrinos Searches and Decaying Sterile Neutrinos	HOSTERT, Matheus
11:50	Supernova Neutrino Energy Spectrum Reconstruction in JUNO with a probabilistic unfolding method	MARTELLINI, Cristina
11:55	Discussion Time (10 minutes)	
12:05	Core-Collapse Supernova Neutrinos in JUNO	LI, Huiling
12:10	On Stellar Evolution in a Neutrino Hertzsprung–Russell Diagram	FARAG, Ebraheem
12:15	The Diffuse Supernova Neutrino Background in Super-Kamiokande	GIAMPAOLO, Alberto
12:20	Theory of Fast Flavor Conversion for Supernova neutrinos	BHATTACHARYYA, Soumya
12:25	Discussion Time (10 minutes)	

Cross Sections: (Flash) - Room 1 (11:35-12:05)

-Conveners: Christian Farnese; Andrea Longhin

time	title	presenter
11:35	Towards the cross-section measurement of the charged current muon antineutrino single pion production in the T2K near detector	ZARNECKI, Grzegorz
11:40	Measurement of the Electron-Neutrino Charged-Current Inclusive Cross-Section on Argon in MicroBooNE	REGGIANI GUZZO, Marina
11:45	Characterising 2p2h interactions using low momentum protons	ZALIPSKA, Joanna
11:50	Extraction of the Inclusive Muon Neutrino Charged Current Cross Section at MicroBooNE	GU, Wenqiang
11:55	Discussion Time (10 minutes)	

Commemorations - <https://youtu.be/tM3lm3JuvUo> (14:00-15:10)

-Conveners: Mauro Mezzetto

time	title	presenter
14:00	Commemoration of Masatoshi Koshiba	SUZUKI, Atsuto
14:30	Commemoration of Samoil Bilenky	PETKOV, Serguey
14:50	Commemoration of Jack Schneps	SOUSA, Alexandre

Coffee Break (15:10-15:25)

Challenge - plenary (15:25-16:55)**-Conveners: Chiara Sirignano**

time	title	presenter
15:25	Neutrino Beta Decay and Neutrino Coherent Scattering: Examples of Neutrino Physics at Ultra-Low Energy Scales	FORMAGGIO, Joseph
15:55	Theoretical challenges of neutrino masses and mixings	JOACHIM, Kopp
16:25	Multimessenger fingerprint of Dark Matter	BERTONE, Gianfranco

Coffee Break (16:55-17:10)**Cross Sections - Room 1 (17:10-18:10)****-Conveners: Christian Farnese; Chiara Sirignano**

time	title	presenter
17:10	ANNIE Phase II: Experiment Overview and first data	DRAKOPOULOU, Evangelia
17:30	Neutrino Interaction Results from MINERvA	YANG, Kang
17:50	Recent neutrino cross-section results from MicroBoONE	MISTRY, Krishan

Non Standard Interactions - Room 3 (17:10-18:10)**-Conveners: Mauro Mezzetto; Francesco D'Eramo**

time	title	presenter
17:10	Dark Matter through the Neutrino Portal	FU, Bowen
17:30	Minimal scoto-seesaw mechanism for neutrino masses with spontaneous CP violation	BARREIROS, D.
17:50	Exploring the leptonic CP-violation in the presence of a light sterile neutrino	CHATTERJEE, Sabya Sachi

Low Energy Neutrinos - Room 2 (17:10-18:10)**-Conveners: Fabio Pupilli; Andrea Longhin**

time	title	presenter
17:10	Imaging the Galactic Core with a Neutrino Gravitational Lens of our Sun	SOLOMEY, Nickolas
17:30	Recent results from the Sudbury Neutrino Observatory experiment	MASTBAUM, Andrew
17:50	The observation of a neutrino from the Tidal Disruption Event AT2019dsg: a concordance model	LUNARDINI, Cecilia

Monday 22 February 2021

Neutrinos at Colliders - Room 1 (10:00-11:20)

-Conveners: **Marco Grassi; Christian Farnese**

time	title	presenter
10:00	The Scattering and Neutrino Detector at the LHC	DI CRESCENZO, Antonia
10:20	Neutrino Physics with the SHiP experiment	PASTORE, Alessandra
10:40	Heavy neutrino searches at the FCC	GONZALEZ SUAREZ, Rebeca
11:00	Probing LFV in an effective theory at ep colliders	HAMMAD, Ahmed

Astrophysical Models - Room 2 (10:00-11:20)

-Conveners: **Chiara Sirignano; Mathieu Lamoureux**

time	title	presenter
10:00	IceCube constraints on Violation of Equivalence Principle	FIORILLO, Damiano F. G.
10:20	Active galactic nuclei as neutrino sources: from IceCube to radio neutrino telescopes	RODRIGUES, Xavier
10:40	Neutrinos and UHECR from GRB internal shock scenarios	RUDOLPH, Annika
11:00	On the detectability of cosmogenic neutrinos	ALVES BATISTA, Rafael

Data Science and Detector R&D - Room 3 (10:00-11:20)

-Conveners: **Gianmaria Collazuol; Francesco D'Eramo**

time	title	presenter
10:00	3D segmented plastic scintillator neutrino detector for T2K experiment	KHABIBULLIN, Marat
10:20	Atmospheric Neutrino Physics with JUNO	SETTANTA, Giulio
10:40	Directional Dark Matter Search with NEWSdm	TIOUKOV, Valeri
11:00	Novel LiquidO Neutrino Detection Technology	CABRERA, Anatael

Coffee Break (11:20-11:35)

Astrophysical Models: (Flash) - Room 2 (11:35-12:25)

-Conveners: **Elisa Bernardini; Mathieu Lamoureux**

time	title	presenter
11:35	Photohadronic modelling of the 2010 gamma-ray flare from Mrk 421	ROSALES DE LEON, Alberto
11:40	A marginally fast-cooling proton-synchrotron model for prompt GRB emission	FLOROU, Ioulia
11:45	Neutrino flavor conversions in binary neutron star merger remnants	PADILLA GAY, Ian
11:50	Invisible neutrino decay at KM3NeT-ORCA	TERNES, Christoph Andreas
11:55	Discussion Time (10 minutes)	
12:05	Reservoir Sources Contribution to the astrophysical Neutrino Flux	AMBROSONE, Antonio
12:10	Brightest Solar Flare Neutrino Astronomy in SK, HK and Icecube	KHLOPOV, Maxim
12:15	Discussion Time (10 minutes)	

Non Standard Interactions and Cosmology: (Flash) - Room 3 (11:35-12:05)**-Conveners: Francesco D'Eramo; Fabio Pupilli**

time	title	presenter
11:35	Preliminary study on the relative in-flight flux self-calibration for the Euclid NISP instrument	RISSO, Ilaria
11:40	Phenomenological Advantages of the Normal Neutrino Mass Ordering	GE, Shao-Feng
11:45	Symmetry Breaking and Nuclear Effects in Hyperon Production	THORPE, Christopher
11:50	Heavy Neutrino-Antineutrino Oscillations at Colliders	ROSSKOPP, Johannes
11:55	Discussion Time (10 minutes)	

New Facilities: (Flash) - Room 1 (11:35-12:35)**-Conveners: Andrea Longhin; Christian Farnese**

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

Neutrino Masses and Mixings - Plenary (14:00-15:30)**-Conveners: Andrea Longhin**

time	title	presenter
14:00	T2K	GUIGUE, Mathieu
14:30	NOvA	STRAIT, Matthew
15:00	Super-Kamiokande	SMY, Michael

Coffee Break (15:30-15:45)**Neutrino Telescopes and MultiMessenger Astrophysics - Plenary (15:45-17:15)****-Conveners: Francesco D'Eramo**

time	title	presenter
15:45	IceCube and astrophysical sources	WHITEHORN, Nathan
16:15	Connecting neutrinos, cosmic-rays and photons	FRANCKOWIAK, Anna
16:45	Multi energy neutrino sources: galactic and extra-galactic	MURASE, Kohta

Coffee Break (17:15-17:30)

New Facilities: (Room 1) - Room 1 (17:30-18:30)**-Conveners: Fabio Pupilli; Chiara Sirignano**

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

Astrophysical Models - Room 2 (17:30-18:30)**-Conveners: Christian Farnese; Marco Grassi**

time	title	presenter
17:30	Astrophysical Neutrino Decay	DENTON, Peter
17:50	The Future of High-Energy Astrophysical Neutrino Flavor Measurements	SONG, Ningqiang
18:10	Hunting for Glashow Resonance with PeV Neutrino Telescopes	LIU, Qinrui

Non Standard Interactions and Cosmology - Room 3 (17:30-18:30)**-Conveners: Francesco D'Eramo; Mauro Mezzetto**

time	title	presenter
17:30	Neutrino thermalization in the early universe: precision calculations	GARIAZZO, Stefano
17:50	Breaking isotropy in the early Universe with neutrino oscillations	HANSEN, Rasmus S. L.
18:10	Euclid and the challenge of neutrino mass detection	ARCHIDIACONO, Maria

Tuesday 23 February 2021

Double Beta decays and Neutrino Masses - Room 1 (10:00-11:20)

-Conveners: **Filippo Varanini; Fabio Pupilli**

time	title	presenter
10:00	Latest results from the CUORE experiment	FANTINI, Guido
10:20	KamLAND-Zen 800	OZAKI, Hideyoshi
10:40	Status and prospects of the NEXT experiment	ARAZI, Lior
11:00	The GERDA experiment in the search for neutrinoless double-beta decay	COMELLATO, Tommaso

Non Standard Interactions - Room 3 (10:00-11:20)

-Conveners: **Andrea Longhin; Mauro Mezzetto**

time	title	presenter
10:00	Neutrino mixing by modifying the Yukawa coupling structure of Constrained sequential Dominance	GANGULY, Joy
10:20	Leptogenesis from low energy CP violation in minimal left-right symmetric model	ZHANG, Xinyi
10:40	Explaining the ANITA events by a $SU(2)_L \times U(1)_{\tau}$ gauge model	FARZAN, Yasaman
11:00	Importance of second oscillation maxima in probing invisible neutrino decay	CHAKRABORTY, Kaustav

Multimessenger Investigations - Room 2 (10:00-11:20)

-Conveners: **Luca Stanco; Elisa Bernardini**

time	title	presenter
10:00	. (20 minutes)	
10:20	Search for neutrinos in coincidence with Gravitational Wave events from LIGO-Virgo O3a Observing Run with the Super-Kamiokande detector	LAMOUREUX, Mathieu
10:40	Ultra-high-energy neutrino searches and gravitational wave follow-up with the Pierre Auger Observatory	SCHIMP, Michael
11:00	Ultra-high-energy multi-messenger activities at the Pierre Auger Observatory	SCHERINI, Viviana

Coffee Break (11:20-11:35)

Non Standard Interactions: (Flash) - Room 3 (11:35-12:35)

-Conveners: **Andrea Longhin; Mauro Mezzetto**

time	title	presenter
11:35	Improvements on perturbative oscillation formulas including non-standard neutrino interactions	GRATIERI, Diego
11:40	Analytical solutions to renormalization-group equations of neutrino oscillation parameters in matter	WANG, Xin
11:45	Impact of non-unitary neutrino mixing on physics potential of long baseline experiments	C, SOUMYA
11:50	Quantum Studies of Neutrinos	JHA, Abhishek
11:55	Discussion Time (10 minutes)	

12:05	Evolution of Neutrino Mass-Mixing Parameters in Matter with Non-Standard Interactions	DAS, Sudipta
12:10	A New Approach to Probe Non-Standard Interactions in Atmospheric Neutrino Experiments	KUMAR, Anil
12:15	A Dark Seesaw at Low Energy Experiments	ABDULLAHI, Asli
12:20	Search for Non Standard Neutrino Interactions and other Lorentz Invariance Violation effects in neutrino physics	ANTONELLI, Vito
12:25	Discussion Time (10 minutes)	

Multimessenger Investigations: (Flash) - Room 2 (11:35-12:35)

-Conveners: Mathieu Lamoureux; Elisa Bernardini

time	title	presenter
11:35	Search for neutrino non-standard interactions with 10 years of ANTARES data and perspectives for KM3NeT/ORCA	KHAN CHOWDHURY, Nafis Rezwana
11:40	Constraining the contribution of Gamma-Ray Bursts to the diffuse neutrino flux with the ANTARES dataset (2007-2017)	ZEGARELLI, Angela
11:45	Untriggered multiple flare neutrino search from a source catalog with 10 years of IceCube data	LUCARELLI, Francesco
11:50	Neutrino fluence from X-ray flares of blazars frequently observed by Swift	STATHOPOULOS, Stamatiou-Ilias
11:55	Discussion Time (10 minutes)	
12:05	Searching for Dark Matter from the Sun with Ten Years of IceCube Data	LAZAR, Jeff
12:10	Atmospheric electron and muon neutrinos energy spectrum with the ANTARES neutrino telescope	VERSARI, Federico
12:15	Rapid Response to Extraordinary Events: the Gamma-Ray Follow Up (GFU) platform for IceCube	BOSCOLO MENEGUOLO, Caterina
12:20	MAGIC observation strategy of IceCube neutrino alerts	VIALE, Ilaria
12:25	Discussion Time (10 minutes)	

Double Beta decays and Neutrino Masses: (Flash) - Room 1 (11:35-12:40)

-Conveners: Filippo Varanini; Fabio Pupilli

time	title	presenter
11:35	Search for light exotic fermions in double beta decay	BOSSIO, Elisabetta
11:40	The FBI concept in the context of Ba-tagging for neutrinoless double beta decay events	FREIXA, Zoraida
11:45	Double beta decay results from the CUPID-0 experiment	CELI, Emanuela
11:50	The search for $0\nu\text{EC}\beta^+$ of ^{120}Te with CUORE	CAMPANI, Alice
11:55	Discussion Time (10 minutes)	
12:05	Scintillating Li_2MoO_4 Bolometers for neutrinoless double beta decay search	RESSA, Alberto
12:10	γ background reduction in $0\nu\beta\beta$ searches with organic compound holder	GHISLANDI, Stefano
12:15	Developing the next neutrino mass experiment: Project 8 Phase III	STACHURSKA, Juliana
12:20	A novel technique for the study of pile-up events in cryogenic bolometers	DELL'ORO, Stefano

12:25	Latest results of the R2D2 project: a possible future neutrino double beta decay experiment	NEEP, Tom
12:30	Discussion Time (10 minutes)	

Neutrino Masses and Mixings - Plenary (14:00-15:30)

-Conveners: Filippo Varanini

time	title	presenter
14:00	Neutrino, Solar and star physics with Borexino	BELLINI, Gianpaolo
14:30	Phenomenology of three neutrino oscillations	MARRONE, Antonio
15:00	Reactor neutrinos (θ_{13} and steriles)	HUBER, Patrick

Coffee Break (15:30-15:45)

Neutrino Telescopes and MultiMessenger Astrophysics - Plenary (15:45-17:15)

-Conveners: Mathieu Lamoureux

time	title	presenter
15:45	KM3NeT	HEIJBOER, Aart
16:15	ANTARES	KOUCHNER, Antoine
16:45	Baikal	DZHILKIBAEV, Zhan-Arys

Coffee Break (17:15-17:30)

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

-Conveners: Luca Stanco; Andrea Longhin

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

_____ Sterile Neutrinos and New Physics - Room 3 (17:30-18:30)

-Conveners: Filippo Varanini; Mauro Mezzetto

time	title	presenter
17:30	MicroBooNE's Search for a Photon-Like Low Energy Excess	ROSS-LONERGAN, Mark
17:50	Search for electron-like low energy excess using Wire-Cell event reconstruction at MicroBooNE	WEI, Hanyu
18:10	Astrophysics and BSM Physics Capabilities and Results from MicroBooNE	GUZOWSKI, Pawel

_____ Double Beta decays and Neutrino Masses - Room 1 (17:30-18:50)

-Conveners: Christian Farnese; Chiara Sirignano

time	title	presenter
17:30	The LEGEND neutrinoless double-beta decay program	HENNING, Reyco
17:50	Status of the Majorana Demonstrator	GUINN, Ian
18:10	The nEXO search for neutrinoless double beta decay	LENARDO, Brian

18:30 Tritium Results from Project 8 Phase II

PETTUS, Walter

Wednesday 24 February 2021

Low Energy Neutrinos - Room 2 (10:00-11:20)

-Conveners: Gianmaria Collazuol; Mathieu Lamoureux

time	title	presenter
10:00	. (20 minutes)	
10:20	Sensitivity to CNO cycle solar neutrinos in Borexino	PENEK, Oemer
10:40	Feasibility and physics potential of detecting 8B solar neutrinos at JUNO	ZHAO, Jie
11:00	A New Window into Neutrino Astronomy with Dark Matter Experiments: Supernova Forecast and the Origin of Supermassive Black Holes	TAKHISTOV, Volodymyr

Oscillations - Room 3 (10:00-11:20)

-Conveners: Marco Grassi; Mauro Mezzetto

time	title	presenter
10:00	Atmospheric neutrino oscillations with Super-Kamiokande and prospects for SuperK-Gd	FERNANDEZ, Pablo
10:20	Oscillation Physics in JUNO	MALYSHKIN, Yury
10:40	Hyper-Kamiokande Neutrino Beam Oscillation Sensitivities	DEALTRY, Thomas
11:00	Future neutrino physics using the upgraded ND280 detector of the T2K experiment	JESÚS-VALLS, Cesar

Double Beta decays and Neutrino Masses - Room 1 (10:00-11:20)

-Conveners: Christian Farnese; Fabio Pupilli

time	title	presenter
10:00	. (20 minutes)	
10:20	CUPID: a next generation bolometric neutrinoless double beta decay experiment	GIULIANI, Andrea
10:40	The CUPID-Mo experiment for the search of neutrinoless double beta decay	LOAIZA, Pia
11:00	First KATRIN results: search for light sterile neutrinos	LASSERRE, Thierry

Coffee Break (11:20-11:35)

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

-Conveners: Gianmaria Collazuol; Marco Grassi

time	title	presenter
11:35	Search for exotic pion decays	CUEN-ROCHIN, Saul
11:40	Study of Ocean Bottom Detector for observation of geo-neutrinos from mantle	SAKAI, Taichi
11:45	Overview of the Planned Surface Enhancement of IceCube	TURCOTTE, Roxanne
11:50	Pacific Ocean Neutrino Experiment (P-ONE): pathfinder and prototype line development	SPANNFELLNER, Christian
11:55	Discussion Time (10 minutes)	
12:05	Measuring the proton Zemach radius with the FAMU experiment at RIKEN-RAL	BONESINI, Maurizio Giorgio

12:10	Surprising Muon and Tau Airshower from Earth edges and Moon	OLIVA, Pietro
12:15	Toward the detection of UHE neutrinos with the Cherenkov Telescope on EUSO-SPB2	GAZDA, Eliza
12:20	The Liquid Scintillator for JUNO	MONTUSCHI, Michele
12:25	Discussion Time (10 minutes)	

Data Science and Detector R&D: (Flash) - Room 1 (11:35-12:35)

-Conveners: Christian Farnese; Fabio Pupilli

time	title	presenter
11:35	Pulse Shape Discrimination using convolutional Neural Network (CNN) for the SoLiD experiment	GALLEGO, Savitri
11:40	PMT Waveforms for Pulse Shape Discrimination in JSNS2	JEON, Sanghoon
11:45	Neutrino energy reconstruction using machine learning algorithms	NAGU, Srishti
11:50	A deep-learning based waveform region-of-interest finder for the liquid argon time projection chamber	WU, Wanwei
11:55	Discussion Time (10 minutes)	
12:05	Recent achievements in the hybrid detector development program for THEIA	KAPTANOGLU, Tanner
12:10	Muon Energy reconstruction and neutrino astronomy with DUNE far detector.	SINGH, Jaydip
12:15	Spallation Backgrounds in Super-Kamiokande	COFFANI, Alice
12:20	Using proton information to constrain T2K fit	SKWARCZYNSKI, Kamil
12:25	Discussion Time (10 minutes)	

Neutrino Masses and Mixings - Plenary (14:00-15:30)

-Conveners: Christian Farnese

time	title	presenter
14:00	Cosmology with neutrinos	HANNESTAD, Steen
14:30	FNAL Short Baseline Program	FAVA, Angela
15:00	IceCube: oscillations and BSM	STUTTARD, Tom

Coffee Break (15:30-15:45)

Neutrino Telescopes and MultiMessenger Astrophysics - Plenary (15:45-17:15)

-Conveners: Fabio Pupilli

time	title	presenter
15:45	Gamma Rays	AHARONIAN, Felix
16:15	Ultra-High Energy Cosmic Rays	UNGER, Michael
16:45	Dark Matter at Neutrino Telescopes: Searching for the Heaviest Particle in the Universe	RODD, Nicholas

Coffee Break (17:15-17:30)

Oscillations - room 2 (17:30-18:30)

-Conveners: Mathieu Lamoureux; Chiara Sirignano

time	title	presenter
17:30	Neutrino Oscillation Results from NOvA Experiment	VALLARI, Zoya
17:50	T2K latest oscillation analysis results and methodology	WALSH, Joseph
18:10	T2K latest results on muon neutrino and antineutrino disappearance	KASSETTI, Siva Prasad

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

-Conveners: Luca Stanco; Mauro Mezzetto

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

Data Science and Detector R&D - Room 1 (17:30-18:30)

-Conveners: Filippo Varanini; Andrea Longhin

time	title	presenter
17:30	Detector Performance of the MicroBooNE LArTPC	WOSPAKRIK, Marianne
17:50	SNEWPY: a pipeline from supernova simulations to detector signals	KNELLER, James
18:10	Gaseous detectors for Neutrino-nucleus coherent scattering at the ESS	MONRABAL, Francesc

Thursday 25 February 2021

Multimessenger Investigations - Room 2 (10:00-11:20)

-Conveners: Christian Farnese; Elisa Bernardini

time	title	presenter
10:00	Neutrino Target of Opportunity for the Cherenkov Telescopes Array	SATALECKA, Konstancja
10:20	MAGIC and MWL monitoring of the blazar TXS 0506+056 in the 2017/2019 season	D'AMMANDO, Filippo
10:40	Probing Dark Matter with IceCube	BHATTACHARYA, Atri
11:00	Search for astrophysical tau neutrinos using Deep Learning with IceCube	PANKOVA, Daria

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

-Conveners: Francesco D'Eramo; Fabio Pupilli

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

Sterile Neutrinos and New Physics - <https://unipd.link/NeuTel-ParallelRoom1> (10:00-11:20)

-Conveners: Luca Stanco; Andrea Longhin

time	title	presenter
10:00	Search for sterile neutrinos at RENO	YOON, Seok-Gyeong
10:20	Search for three body pion decays $\pi^+ \rightarrow \pi^0 \nu \bar{\nu}$ in the PIENU experiment	ITO, Shintaro
10:40	Current status & plan of JSNS2/JSNS2-II	LEE, Dongha
11:00	The detailed analysis of the results of the Neutrino-4 experiment on the search for sterile neutrino	SEREBROV, Anatolii

Coffee Break (11:20-11:35)

Astrophysical Models: (Flash) - Room 2 (11:35-12:30)

-Conveners: Elisa Bernardini; Christian Farnese

time	title	presenter
11:35	Searching for atmospheric Heavy Neutral Leptons in Neutrino Telescopes	MUÑOZ, Víctor
11:40	Dark Matter search with neutrino telescopes through Angular Power Spectrum	DEKKER, Ariane
11:45	Search for Solar Atmospheric Neutrinos with 9 Years of IceCube Data	VILLARREAL, Joshua
11:50	Dark Matter Neutrino Scattering in the Galactic Centre	MCMULLEN, Adam
11:55	Discussion Time (10 minutes)	
12:05	Neutrino signal dependence on gamma-ray burst emission mechanism	PITIK, Tetyana
12:10	Neutrino mass ordering determination through a combined JUNO and KM3NeT/ORCA analysis	CHAU, Nhan

12:15	Astrophysical or Atmospheric prompt neutrinos in Icecube?	FARGION, Daniele
12:20	Discussion Time (10 minutes)	

Data Science and Detector R&D: (Flash) - Room 1 (11:35-12:35)

-Conveners: Luca Stanco; Andrea Longhin

time	title	presenter
11:35	JUNO 20-inch PMT Testing systems and progress	TIETZSCH, Alexander
11:40	JUNO OSIRIS Calibration Systems	STERR, Tobias
11:45	Techniques Developed Calibrating ProtoDUNE-SP Using a Cosmic Ray Tagger	DIURBA, Richard
11:50	Performance of the Time Projection Chambers with resistive MicroMegas of the T2K near detector upgrade	SUVOROV, Sergey
11:55	Discussion Time (10 minutes)	
12:05	Dual Calorimetry at JUNO	HAN, Yang
12:10	Ageing of the scintillator detectors of the T2K off-axis and on-axis near detectors, ND280 and INGRID	ANTONOVA, Maria
12:15	Neutron Generator Calibration System for DUNE	BEZAWADA, Yashwanth
12:20	Progresses of the multi-PMT optical module for the Hyper-K experiment	RUGGERI, Alan Cosimo
12:25	Discussion Time (10 minutes)	

Neutrino Telescopes and MultiMessenger Astrophysics - Plenary (14:00-15:30)

-Conveners: Elisa Bernardini

time	title	presenter
14:00	Multimessenger signatures for sources of Gravitational Waves	BRANCHESI, Marica
14:30	Neutrino counterparts for GW sources	TAMBORRA, Irene
15:00	New physics at the next neutrino facilities	MACHADO, Pedro

Coffee Break (15:30-15:45)

Neutrino Masses and Mixings - Plenary (15:45-17:15)

-Conveners: Marco Grassi

time	title	presenter
15:45	DUNE	KARAGIORGI, Georgia
16:15	JUNO	XU, Donglian
16:45	Hyper-Kamiokande	DI LODOVICO, Francesca

Coffee Break (17:15-17:30)

Data Science and Detector R&D - Room 1 (17:30-18:30)

-Conveners: Filippo Varanini; Chiara Sirignano

time	title	presenter
17:30	Results from the ARTIE experiment	PAGANI, Luca
17:50	Identification and Reconstruction of Michel electrons in ProtoDUNE-SP	RAFIQUE, Aleena

18:10	Results on physics performance of ProtoDUNE-SP	BIAN, Jianming
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Multimessenger Investigations - Room 3 (17:30-18:30)

-Conveners: Mathieu Lamoureux; Marco Grassi

time	title	presenter
17:30	Neutrino predictions for 3HSP J095507.9+355101, an extreme X-ray flaring blazar	PETROPOULOU, Maria Petropoulou
17:50	Prospects for Identifying Luminous Seyfert Galaxies in Current and Future Neutrino Telescopes	KHEIRANDISH, Ali
18:10	The day before Betelgeuse dies: identifying a near-earth pre-supernova star from its neutrinos	MUKHOPADHYAY, Mainak

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

-Conveners: Mauro Mezzetto; Fabio Pupilli

time	title	presenter
17:30	Potential of neutrino physics with DARWIN	TERLIUK, Andrii
17:50	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	Physics opportunities at nuSTORM	ALVAREZ-RUSO, Luis

Friday 26 February 2021

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

-Conveners: **Mathieu Lamoureux; Christian Farnese**

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

Oscillations - Room 1 (10:00-11:20)

-Conveners: **Marco Grassi; Chiara Sirignano**

time	title	presenter
10:00	Recent Results from RENO	YOO, Jonghee
10:20	Latest Results from the Daya Bay Reactor Neutrino Experiment	HU, Jianrun
10:40	Double Chooz Experiment Status	CABRERA, Anatael NAVAS, Diana
11:00	Earlier Resolution of Neutrino Mass Ordering?	NUNOKAWA, Hiroshi

Coffee Break (11:20-11:35)

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

-Conveners: **Mathieu Lamoureux; Christian Farnese**

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

Sterile Neutrinos and New Physics: (Flash) - Room 1 (11:35-12:15)

-Conveners: **Marco Grassi; Chiara Sirignano**

time	title	presenter
11:35	keV Sterile Neutrino Dark Matter Terrestrial Searches: Alive and Well	BENSO, Cristina

11:40	Beam-related gamma background at the JSNS2	JUNG, Da Eun
11:45	Constraining the Neutral Current Pi0 Background for MicroBooNE's Single-Photon Search	MOGAN, Andrew
11:50	Cosmic ray induced Background study at the JSNS2	HYOUNGKU , Jeon
11:55	Discussion Time (10 minutes)	
12:05	. (10 minutes)	

Concluding session: (1) - Plenary (14:00-15:30)

-Conveners: Nicola Bartolo

time	title	presenter
14:00	Phenomenology of sterile neutrinos	COLOMA, Pilar
14:30	Cosmological tensions	GALLI, Silvia
15:00	Leptogenesis	TURNER, Jessica

Coffee Break (15:30-15:45)

Concluding session: (2) - <https://youtu.be/JM9gLy3617c> (15:45-17:45)

-Conveners: Antonio Masiero

time	title	presenter
15:45	Future facilities for high-energy neutrinos	NELLES, Anna
16:15	Concluding neutrino masses and mixings	RAGAZZI, Stefano
16:45	Concluding neutrino telescopes	MONTARULI, Teresa
17:15	Concluding Remarks	