



# Neutrino Theory Network Workshop

## Tuesday, 21 June 2022

### Plenary - Curia-II (09:00 - 10:30)

time	[id] title	presenter
09:00	[1] Welcome and introduction	MACHADO, Pedro
09:15	[17] Interpretation of MicroBooNE results	MARTINEZ SOLER, Ivan Jesus
09:40	[18] Achilles: A Modern Theory Driven Event Generator	ISAACSON, Joshua
10:05	[8] Astrophysical Neutrinos and Their Entanglement	BALANTEKIN, Baha

### Plenary - Curia-II (11:00 - 12:15)

time	[id] title	presenter
11:00	[19] Neutrino Mass Models and Nonstandard Interactions	BABU, K.S.
11:25	[20] Neutrino Nonstandard Interaction Phenomenology	DEV, Bhupal
11:50	[9] Neutrino-nucleus scattering, a Quantum Monte Carlo perspective	LOVATO, Alessandro

### Plenary - Curia-II (14:00 - 15:40)

time	[id] title	presenter
14:00	[26] Common physics challenges of modern neutrino event generators	FRIEDLAND, Alexander
14:25	[13] Electron and neutrino interaction Measurements for precision oscillation measurements	HEN, Or
14:50	[21] Successful nu-p process in neutrino-driven core-collapse supernova outflows	MUKHOPADHYAY, Payel
15:15	[10] Lattice QCD for neutrinos	WAGMAN, Michael

# Wednesday, 22 June 2022

## Plenary - Curia-II (09:15 - 10:30)

time	[id] title	presenter
09:15	[22] New Constraints on New Explanations of the MiniBooNE Anomaly	ARGUELLES-DELGADO, Carlos
09:40	[23] Theory of QED radiative corrections to neutrino scattering at accelerator energies	HILL, Richard
10:05	[4] Flavor Symmetries for Neutrino Mixing	CHEN, Mu-Chun

## Plenary - Curia-II (11:00 - 12:15)

time	[id] title	presenter
11:00	[11] Quantum many-body computations of lepton-nucleus quasielastic scattering	ACHARYA, Bijaya
11:25	[5] Near Detector Tuning and New Physics Searches	LI, Shirley
11:50	[12] Towards probing the diffuse supernova neutrino background in all flavors	SULIGA, Anna Malgorzata

## Plenary - Curia-II (14:00 - 15:40)

time	[id] title	presenter
14:00	[27] Neutrino polarizability	PETROV, Alexey
14:25	[6] QED factorization theorems for scattering with nuclear targets	PLESTID, Ryan
14:50	[24] Dimuons in neutrino telescopes: New predictions and first search in IceCube	ZHOU, Bei
15:15	[7] Direct and Indirect BSM searches at Neutrino Experiments	TABRIZI, Zahra

# Thursday, 23 June 2022

## Plenary - Curia-II (10:00 - 10:30)

time	[id] title	presenter
10:00	[25] The Fermilab Experimental Neutrino Program	BRICE, Stephen

## Plenary - Curia-II (11:00 - 12:30)

time	[id] title	presenter
11:00	[14] Experimental needs from theory: cross sections	MAHN, Kendall
11:30	[15] Experimental needs from theory: new physics	PALAMARA, Ornella
12:00	[16] Experimental needs from theory: astrophysics	HABIG, Alec