



# Invisibles22 Workshop

## lundi 20 juin 2022

**Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (16:30 - 17:00)**

time	[id] title	presenter
16:30	[63] Fermiophobic $Z'$ model for simultaneously explaining the muon anomalies $R_{K^*}$ and $(g-2)_\mu$	FERNÁNDEZ NAVARRO, Mario
16:36	[64] Anomalous gauge couplings in the light of recent results from muon $g-2$ and flavor observables	DEKA, Kuldeep
16:42	[65] A last chance for kinetic mixing: explaining $(g-2)_\mu$ with semi-visible dark photons	MASSARO, Daniele
16:48	[66] Flavour constraints on light $Z'$ extensions of the Standard Model	PINSARD, Emanuelle PINSARD, Emanuelle
16:54	[67] BSM flavoured correlations	DE GIORGI, Arturo

# mardi 21 juin 2022

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (09:10 - 10:00)

time	[id] title	presenter
09:30	[68] Relating the dark matter and baryon content of galaxy clusters through strong lensing	ALLINGHAM, Joseph
09:36	[69] Vortice Classification in Ultra-light Dark Matter Halos	BITTAR, Pedro
09:42	[70] Xenoscope: a full scale vertical demonstrator for the DARWIN observatory	CIMENTAL CHAVEZ, Andrea Paloma
09:48	[71] A two-component dark matter model and its associated gravitational waves	COSTA, Francesco
09:54	[72] XENONnT Calibration of Low Energy Electronic Recoil Response with $^{37}\text{Ar}$	GUIDA, Matteo

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (14:30 - 15:00)

time	[id] title	presenter
14:30	[73] A self-consistent wave description of axion minicluster and their survival in the galaxy	DANDROY, Virgile
14:36	[74] Nonresonant Searches for Axion-Like Particles in Vector Boson Scattering Processes at the LHC	MACHADO RODRÍGUEZ, Jonathan
14:42	[75] ArgoNeuT: New bounds on leptophilic ALPs and Majorons	MASSONI SALLA, Gabriel
14:48	[76] New bounds on axion-like particles from MicroBooNE	URREA GONZÁLEZ, Salvador
14:54	[77] Advancing globular cluster constraints on the QCD axion	FREDERICK, Hiskens

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (17:00 - 17:30)

time	[id] title	presenter
17:00	[78] Multi-component Dark Matter	VATSYAYAN, Drona
17:06	[79] Model independent upper limits in dark matter direct detection searches	HERRERA, Gonzalo
17:12	[81] Novel NaI based "remoTES" cryogenic calorimeters for Direct Dark Matter Detection in COSINUS	RAGHUNATH BHARADWAJ, Mukund
17:18	[82] Flavour and dark matter in a hybrid Type-II seesaw/scotogenic model	BARREIROS, Débora

# mercredi 22 juin 2022

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (09:30 - 10:00)

time	[id] title	presenter
09:30	[83] Impact of Wave Packet Separation in Low-Energy Sterile Neutrino Searches	BERTOLEZ MARTINEZ, Toni BERTOLEZ MARTINEZ, Toni
09:36	[87] Searches for heavy neutral leptons: beyond simplified scenarios	PIAZZA, Gioacchino
09:42	[85] Neutrino upscattering to heavy neutral leptons as an explanation of the MiniBooNE low-energy excess	HOEFKEN ZINK, Jaime
09:48	[86] Flavor Seesaw	KLETT, Sophie
09:54	[84] Supernova neutrino Earth tomography: Myth or Reality?	HAJJAR MUNOZ, Rasmi

# jeudi 23 juin 2022

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (12:00 - 12:30)

time	[id] title	presenter
12:00	[88] An absolute $\nu$ mass measurement with the DUNE experiment	POMPA, Federica
12:06	[89] Neutrino Decoherence: from microscope to macroscope	CHENG, Ting
12:12	[90] On the neutrino sector in the minimal Left-Right model	LEAL, Luighi
12:18	[91] Propagation of decaying neutrinos in matter: a 3-flavor analytic treatment	S. CHATTOPADHYAY, Dibya
12:24	[92] Exotic Physics in the Beta Decay of Tritium	CANNING, James

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (15:00 - 15:30)

time	[id] title	presenter
15:00	[93] Constraining High Energy Intrinsic Beam Background of the NOvA Experiment	SINGH, Ishwar
15:06	[94] Searching for Dilatons in the Ly-alpha forest	HAMAIDE, Louis
15:12	[95] Mixed messages: Constraining dark matter with astrophysical signals (or lack thereof)	MORBECH, Markus
15:18	[96] Explaining the cosmological coincidence with infrared fixed points	RITTER, Alexander
15:24	[97] Detection of very small structures of Dark Matter with direct detection experiments	MONTOYA, Valentina

## Young Scientists' Forum - 200/0-Auditorium - Auditorium P. Lehmann (17:00 - 17:30)

time	[id] title	presenter
17:00	[98] Discrete Goldstone Bosons	ENGUITA-VILETA, Victor
17:06	[99] $U(1)_{L\mu-L\tau}$ for light dark matter, $g_{\mu-2}$ , the 511 keV excess and the Hubble tension	ZHAO, Wenbin
17:12	[100] Lepton Flavor Violation through Semileptonic Operators at 1-loop	PLAKIAS, Ioannis
17:18	[101] The hidden side of scalar-triplet models with spontaneous CP violation	GONÇALVES, Bernardo
17:24	[102] Gravitational portals in the early Universe	CLÉRY, Simon CLÉRY, Simon