



# Invisibles18 Workshop

## Monday, September 3, 2018

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (9:35 AM - 10:35 AM)

-Conveners: Chair: Belen Gavela

time	[id] title	presenter
9:35 AM	[2] Recent Results on Accelerator Oscillation Experiments	CHOUDHARY, Brajesh
10:05 AM	[3] Nonstandard Neutrino Interactions	FARZAN, Yasaman

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (11:05 AM - 2:00 PM)

-Conveners: Chair: Ana M. Teixeira

time	[id] title	presenter
11:05 AM	[7] Sterile Neutrino Searches at Colliders	ANTUSCH, Stefan
11:35 AM	[8] PhD forum 1	
	- [6] Heavy Neutral Fermions at the High-Luminosity LHC (Zeren Simon Wang)	WANG, Zeren Simon
	- [7] Baryogenesis from R-parity Breaking : the Role of Flavour (Fiona Kirk )	KIRK , Fiona
	- [8] Gauge Legacy LHC Run I (Nuno Rosa Agostinho)	ROSA AGOSTINHO, Nuno
	- [10] Determining the Masses of Right-Handed Neutrinos in the Littlest Seesaw (Susana Molina Sedgwick)	MOLINA SEDGWICK, Susana
	- [11] An EFT Approach to Possible Lepton Anomalies (Rupert Coy)	COY, Rupert
12:05 PM	[9] Low-Scale Lepton Number Violation and Leptogenesis	HARZ, Julia
12:35 PM	lunch	

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (2:00 PM - 3:30 PM)

-Conveners: Chair: Renata Zukanovich Funchal

time	[id] title	presenter
2:00 PM	[10] Neutrino masses from Planck-scale lepton number breaking	IBARRA, Alejandro
2:30 PM	[11] PhD forum 2	
	- [1] SO(10) Inspired Z' Models at the LHC (Simon King)	KING, Simon
	- [2] SO(10)xS4 Grand Unified Theory of Flavour and Leptogenesis (Elena Perdomo Mendez)	PERDOMO MENDEZ, Elena
	- [5] Three-Flavoured Non-Resonant Leptogenesis at Intermediate Scales (Kristian Moffat)	MOFFAT, Kristian
	- [4] ARS Mechanism and Beyond (Andrea Caputo)	CAPUTO, Andrea
	- [6] IceCube Bounds on Sterile Neutrinos Above 10 eV (Julia Gehrlein)	GEHRLEIN, Julia
3:00 PM	[12] Neutrinos and the Gravitational Theta-Term	FUNCKE, Lena

**Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (4:00 PM - 6:00 PM)****-Conveners: Chair: Sandhya Choubey**

time	[id] title	presenter
4:00 PM	[13] Neutrino Portal to Dark Matter	TITOV, Arsenii
4:30 PM	[14] Sterile neutrino searches at DUNE and IceCube	HERNANDEZ, Josu
5:00 PM	[15] Testable Models for Leptogenesis	LOPEZ-PAVON
5:30 PM	[16] Neutrino Discussion 1	XING, Zhi-zhong

## Tuesday, September 4, 2018

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (9:00 AM - 10:30 AM)

-Conveners: Chair: Stephen Parke

time	[id] title	presenter
9:00 AM	[17] Direct Neutrino Mass Measurements	GASTALDO, Loredana
9:30 AM	[18] PhD forum 3	
	- [1] Optical Selection for Pandora-based Electron Neutrino Searches in MicroBooNE (Wouter Van De Pontseele)	VAN DE PONTSEELE, Wouter
	- [2] Constraints on Neutrino Matter Potential and Robustness of Oscillation Data (Ivan Esteban)	ESTEBAN, Ivan
	- [3] Status of the eV Sterile Neutrino Oscillations (Alvaro Hernandez-Cabezudo)	HERNANDEZ-CABEZUDO, Alvaro
	- [4] A Study of Invisible Neutrino Decay at DUNE and its Effects on $\theta_{23}$ Measurement (Dipyaman Pramanik)	PRAMANIK, Dipyaman
	- [5] Probing the Sterile Neutrino Portal to Dark Matter with $\gamma$ Rays (Miguel G. Folgado)	G. FOLGADO, Miguel
10:00 AM	[19] Sterile Neutrinos in Beta and Neutrinoless Double Beta Decays	MARCANO, Xabier

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (11:00 AM - 12:30 PM)

-Conveners: Chair: Gabriela Barenboim

time	[id] title	presenter
11:00 AM	[20] Review of Neutrinoless Double Beta Decay Experiments	BROFFERIO, Chiara
11:30 AM	[21] PhD forum 4	
	- [1] KATRIN Background Characterization (Anna Pollithy)	POLLITHY, Anna
	- [2] Status of the Neutrinoless Double-Beta Decay Experiment GERDA (Chloe Ransom)	RANSOM, Chloe
	- [6] Unparticle Decay of Neutrinos and its Possible Signatures at a Km <sup>2</sup> Detector for (3+1) Flavour Framework (Madhurima Pandey)	PANDEY, Madhurima
	- [7] Gravitational Contributions to the Beta Function (Sergio Gonzalez-Martin)	GONZALEZ-MARTIN, Sergio
	- [5] Cosmic Infrared Background Excess from Axion-like Particles, and Implications for Multi-messenger Observations of Blazars (Edoardo Vitagliano)	VITAGLIANO, Edoardo
12:00 PM	[22] Neutrinos in Cosmology	MENA, Olga

### Neutrinos - Nachrichtentechnik - Hörsaal (NTI) (2:30 PM - 4:00 PM)

-Conveners: Chair: Pilar Hernandez

time	[id] title	presenter
2:30 PM	[23] High Energy Neutrinos and Multi Messenger Astronomy	FRANCKOWIAK, Anna
3:00 PM	[24] The High Energy Neutrino Sky	TAMBORRA, Irene
3:30 PM	[25] Neutrino Discussion 2	HERNANDEZ, Pilar