

## **Session Program**

**8-12 Oct 2018**



# **IPA 2018 (Interplay between Particle and Astroparticle physics)**

## ***Plenary***

# Sunday 7 October

09:00

## Plenary

**Session** | **Location:** | **Convener:** Rohana Wijewardhana

09:00–09:25

### Welcome

09:30–09:55

### Status of anomalies in indirect detection

#### Speaker

Tim Linden

10:00–10:25

### Multi-messenger astronomy results

#### Speaker

Hsin-Yu Chen

10:30

11:00

## Plenary

**Session** | **Location:** | **Convener:** Yuval Grossman

11:00–11:25

### Low threshold DM experiments

#### Speaker

Calkins Robert

11:30–11:55

### Perspectives on axions

#### Speaker

Yoni Kahn

12:00

14:00

## Plenary

**Session** | **Location:** | **Convener:** Adrian Bevan

14:00–14:25

### General status of flavor physics

#### Speaker

Yuval Grossman

14:30–14:55

### Status and prospects of LFUV measurements in B physics

#### Speaker

Akimasa Ishikawa

15:00–15:25

### Implication of anomalies in B physics for high pT

#### Speaker

Joaquim Matias

15:30

16:00

## Plenary

**Session** | **Location:** | **Convener:** Pavel Fileviez Perez

16:00–16:25

### Neutrino properties from Cosmology: status and outlook including sterile neutrinos

18:00

**Speaker**

Tijmen de Haan

16:30–16:55

**Neutrino mass hierarchy**

**Speaker**

Chao Zhang

17:00–17:25

**Neutrino experiment results and prospects for CP violation**

**Speaker**

Louise Suter

17:30–17:55

**Double beta decay**

**Speaker**

Yury Kolomensky

# Monday 8 October

09:15

## Plenary

**Session** | **Location:** | **Convener:** Jared Evans

09:15–09:40 **Coherent Neutrino Scattering**

**Speaker**

Kate Scholberg

09:45–10:10 **Charged lepton flavor violation ( $\mu 2e$ ,  $\mu 3e$ ,...)**

**Speaker**

Swagato Banerjee

10:15–10:40 **Update on  $(g-2)_\mu$**

**Speaker**

Tammy Walton

10:45

11:30

## Plenary

**Session** | **Location:** | **Convener:** J Michael Williams

11:30–11:55 **Searches for long lived particles at the LHC**

**Speaker**

James Beacham

12:00

14:00

## Plenary

**Session** | **Location:** | **Convener:** Andrew Long

14:00–14:25

**Discovering or falsifying predictive models of sub-GeV thermal dark matter**

**Speaker**

Gordan Krnjaic

14:30–14:55 **Portal searches (heavy photons)**

**Speaker**

J Michael Williams

15:00–15:25 **Self-interacting dark matter**

**Speaker**

Annika Peter

15:30–15:55 **Gravitational wave measurements**

**Speaker**

Reed Essick

16:00

16:30

## Plenary

**Session** | **Location:** | **Convener:** Walter Tangarife

16:30–16:55 **Primordial black holes in the wake of LIGO**

**Speaker**

Francesc Ferrer

17:00–17:25

**Gravitational waves and pulsar timing arrays****Speaker**

Chiara Mingarelli

17:30–17:55

**Cosmological sources of gravitational waves****Speaker**

Anson Hook

18:00

## Tuesday 9 October

09:00

### Plenary

**Session** | **Location:** | **Convener:** Alex Kagan

09:00–09:25

#### Status and new ideas in electroweak baryogenesis

##### Speaker

Kaori Fuyuto

09:30–09:55

#### New low scale baryogenesis models

##### Speaker

David McKeen

10:00–10:25

#### Testing baryogenesis/leptogenesis at present and future colliders

##### Speaker

Dr Andrew Long

10:30

11:00

### Plenary

**Session** | **Location:** | **Convener:** Kay Kinoshita

11:00–11:25

#### Constraining dark matter with CMB

##### Speaker

Kimberly Boddy

11:30–11:55

#### 21 cm cosmology and connections to dark sectors

##### Speaker

Jordan Mirocha

11:55–12:00

#### About excursions

12:00

# Wednesday 10 October

09:15

## Plenary

**Session** | **Location:** | **Convener:** Jiji Fan

09:15–09:40

### Dark matter candidates and models

#### Speaker

Marco Farina

09:45–10:10

### Direct Dark matter searches (exp overview)

#### Speaker

Rafael Lang

10:15–10:40

### Indirect detection of dark matter

#### Speaker

Louis Strigari

10:45

11:15

## Plenary

**Session** | **Location:** | **Convener:** Philip Coleman Harris

11:15–11:40

### Dark matter at the LHC

#### Speaker

Dr Giancarlo Panizzo

11:45–12:10

### Theory of global DM fits/interpretations (direct, indirect,LHC)

#### Speaker

Joachim Brod

12:15

14:00

## Plenary

**Session** | **Location:** | **Convener:** Patrick Fox

14:00–14:25

### Cosmology and the Higgs boson

#### Speaker

Jiji Fan

14:30–14:55

### Tensions in LambdaCDM

#### Speaker

Graeme Addison

15:00

15:30

## Plenary

**Session** | **Location:** | **Convener:** Colin Bischoff

15:30–15:55

### Future of constraints on inflation

#### Speaker

Masashi Hazumi

16:00–16:25

### Status and prospects for DES and LSST

16:30	<b>Speaker</b> Aaron Roodman	
	16:25-16:30	<b>conference dinner info</b>



# Thursday 11 October

09:15

## Plenary

**Session** | **Location:** | **Convener:** Pasquale Serpico

09:15–09:40

### Overview of beyond the standard model phenomenology

#### Speaker

Patrick Fox

09:45–10:10

### Overview of collider searches

#### Speaker

Philip Coleman Harris

10:15–10:40

### Physics at future colliders

#### Speaker

LianTao Wang

10:45

11:15

## Plenary

**Session** | **Location:** | **Convener:** Louis Strigari

11:15–11:40

### Neutrino Masses, Dark Matter and the New Physics Scale

#### Speaker

Prof. Pavel Fileviez Perez

11:45–12:10

### Dark matter properties from GAIA

#### Speaker

Lina Necib

12:15

14:00

## Plenary

**Session** | **Location:** | **Convener:** Akshay Ghalsasi

14:00–14:25

### Experimental Neutrino Astronomy

#### Speaker

Tianlu Yuan

14:30–14:55

### High Energy Cosmic Rays

#### Speaker

Pasquale Serpico

15:00–15:10

### IPA2020

#### Speaker

gianluca inguglia

15:40