

## **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**

**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

18:00

# 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**

**Speaker**

Aaron Roodman

16:30

16:25-16:30

**conference dinner info**



# 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