

**Session Program**

**24-30 Mar 2019**

**Aspen 2019 Winter Conference "In Pursuit of  
New Particles and Paradigms"**

***Afternoon Session***

Aspen Center for Physics, Flug Forum

# Monday 25 March

16:30

## Afternoon Session

**Session** | **Location:** Aspen Center for Physics, Flug Forum

16:30–16:55 **NA62**

**Speakers**

Dario Soldi, Dario Soldi

16:55–17:20 **FASER**

**Speakers**

Iftah Galon, Iftah Galon, Iftah Galon

17:20–17:45 **Physics Beyond Colliders**

**Speaker**

Gaia Lanfranchi

17:45–18:15 **Coffee Break**

18:15–18:40 **Indirect Detection of Dark Matter**

**Speakers**

Nicholas Llewellyn Rodd, Nicholas Llewellyn Rodd, Nicholas Rodd

18:40–19:05 **Detecting Composite Dark Matter**

**Speaker**

Dorota Grabowska

19:05–19:30 **Pulsar Timing as a Probe of Black Holes and Miniholes**

**Speaker**

Dr Jeff Dror

19:30

# Tuesday 26 March

16:30

## Afternoon Session

**Session** | **Location:** Aspen Center for Physics, Flug Forum

16:30–16:55 **Gravitational Wave Signatures of Dark Matter in Neutron Stars**

**Speaker**  
Ann Nelson

16:55–17:20 **Gaia and Dark Matter**

**Speaker**  
Mariangela Lisanti

17:20–17:45 **21 cm signals of dark matter**

**Speaker**  
Julian Munoz

17:45–18:15 **Coffee Break**

18:15–18:40 **Unveiling the Nature of Dark Matter with Cosmological Observables**

**Speaker**  
Cora Dvorkin

18:40–19:05 **Measuring the Small-Scale Matter Power Spectrum with CMB Lensing**

**Speaker**  
Neelima Sehgal

19:05–19:30 **The Cosmological Bootstrap**

**Speaker**  
Hayden Lee

19:30

# Thursday 28 March

16:30

## Afternoon Session

**Session** | **Location:** Aspen Center for Physics, Flug Forum

16:30–16:55

### Is quantum gravity observable in interferometers?

#### Speakers

Kathryn Zurek, Kathryn Zurek, Kathryn Zurek, Kathryn Zurek, Kathryn Mary Zurek

16:55–17:20

### Using a Primordial Gravitational Wave Background to Illuminate New Physics

#### Speakers

Devin Walker, Devin Walker

17:20–17:45

### Dark Matter and Small Scale Structure

#### Speaker

Justin Read

17:45–18:15

### Coffee Break

18:15–18:40

### Non-Thermal Production of Bosonic Dark Matter

#### Speakers

Raymond Co, Raymond Co

18:40–19:05

### ADMX

#### Speakers

Gianpaolo Carosi, Gianpaolo Carosi

19:05–19:30

### Direct Detection of Ultralight Bosonic Dark Matter

#### Speaker

Robert Lasenby

19:30

## Friday 29 March

16:30

### Afternoon Session

**Session** | **Location:** Aspen Center for Physics, Flug Forum

16:30–16:55 **Coherent Relaxion Dark Matter @ Tabletop Experiments**

**Speakers**

Gilad Perez, Gilad Perez

16:55–17:20 **COHERENT**

**Speaker**

Matthew Green

17:20–17:45 **Boosted Dark Matter at Neutrino Experiments**

**Speakers**

Dr Seodong Shin, Seodong Shin

17:45–18:15 **Coffee Break**

18:15–18:40 **Theory and Phenomenology of Long-Lived Particles**

**Speaker**

Brian Shuve

18:40–19:05 **ATLAS/CMS Long-Lived Particle Overview**

**Speaker**

Yangyang Cheng

19:05–19:30 **New Ideas to Enhance LHC Sensitivities to Long-Lived Particles**

**Speaker**

Zhen Liu

19:30