

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 Minihaloes**

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