

**Session Program**

**Mar 24 - 30, 2019**

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

***Morning Session***

Aspen Center for Physics, Flug Forum

# Mon, March 25

8:00 AM

## Morning Session

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

8:00 – 8:25 AM **Higgs Experimental Summary and Outlook**

**Speaker**

Marumi Kado

8:25 – 8:50 AM **Higgs Couplings**

**Speaker**

Dorival Gonçalves

8:50 – 9:15 AM **Double Higgs Production**

**Speaker**

Caterina Vernieri

9:15 – 9:45 AM **Coffee Break**

9:45 – 10:10 AM **LHC SUSY**

**Speaker**

Keith Ulmer

10:10 – 10:35 AM **LHC Exotics**

**Speaker**

Matthias Danninger

10:35 – 11:00 AM **Composite Higgs**

**Speakers**

Ian Low, Ian Low, Ian Low

11:00 AM

# Tue, March 26

8:00 AM

## Morning Session

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

8:00 - 8:25 AM **New Dark Matter Results from Noble Liquids**

**Speaker**

Aaron Manalaysay

8:25 - 8:50 AM

**New Dark Matter Results from Cryogenic (mK) and other Low-Mass Searches**

**Speaker**

Dr Silvia Scorza

8:50 - 9:15 AM **New Techniques for Direct Detection**

**Speaker**

Dr Peter Sorensen

9:15 - 9:45 AM **Coffee Break**

9:45 - 10:10 AM **Recent results and prospects from LHCb**

**Speaker**

Daniel Johnson

10:10 - 10:35 AM **Belle II: Commissioning, First Results, Future Prospects**

**Speakers**

Sven Vahsen, Sven Vahsen, Sven Vahsen

10:35 - 11:00 AM **Theoretical interpretation of flavor anomalies**

**Speaker**

Bibhushan Shakya

11:00 AM

## Wed, March 27

8:00 AM

### Morning Session

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

8:00 – 8:25 AM **Structure Formation in a Dissipative Dark Sector**

**Speaker**

Daniel Egana-Ugrinovic

8:25 – 8:50 AM **Dissipative Dark Matter and Active Galactic Nuclei**

**Speakers**

Walter Tangarife, Walter Tangarife, Walter Tangarife

8:50 – 9:15 AM **Discovering Dark Forces with Molecules and Nuclei**

**Speaker**

Harikrishnan Ramani

9:15 – 9:45 AM **Coffee Break**

9:45 – 10:10 AM **LHC DM Searches**

**Speaker**

Matteo Cremonesi

10:10 – 10:35 AM

**Searches for new physics in the dark sector with the BaBar detector**

**Speaker**

Gerald Eigen

10:35 – 11:00 AM **Dark Sectors In FerMINI and Neutrino Experiments**

**Speakers**

Yu-Dai Tsai, Yu-Dai Tsai

11:00 AM

# Thu, March 28

8:00 AM

## Morning Session

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

8:00 – 8:25 AM **Neutrino Theory**

**Speaker**

Joachim Kopp

8:25 – 8:50 AM **Neutrino Mass Models**

**Speakers**

Lisa Everett, Lisa Everett

8:50 – 9:15 AM **Neutrinoless Double Beta Decay**

**Speaker**

Jason Detwiler

9:15 – 9:45 AM **Coffee Break**

9:45 – 10:10 AM **Long Baseline Neutrino Experiments - Overview and Outlook**

**Speakers**

Jennifer Raaf, Jennifer Raaf

10:10 – 10:35 AM **Nova and T2K**

**Speakers**

Dr Gavin Davies, Gavin Davies, Gavin Davies, Gavin Davies

10:35 – 11:00 AM **Short Baseline Neutrino Experiments - Overview and Outlook**

**Speakers**

Joshua Spitz, Joshua Spitz, Prof. Joshua Spitz

11:00 AM

# Fri, March 29

8:00 AM

## Morning Session

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

8:00 - 8:25 AM **Recent advances in jet substructure**

**Speakers**

Andrew Larkoski, Andrew Larkoski, Andrew Larkoski, Andrew Larkoski

8:25 - 8:50 AM **Machine Learning in HEP**

**Speaker**

Dan Guest

8:50 - 9:15 AM **Machine Learning Theory Perspective**

**Speakers**

Tilman Plehn, Tilman Plehn

9:15 - 9:45 AM **Coffee Break**

9:45 - 10:10 AM **Precision measurements at LHC**

**Speaker**

Josh Bendavid

10:10 - 10:35 AM **Expectations for sensitivity to BSM physics at HL-LHC**

**Speaker**

Laura Jeanty

10:35 - 11:00 AM **g-2 @FNAL**

**Speaker**

Adam Schreckenberger

11:00 AM

## Sat, March 30

8:00 AM

### Morning Session

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

8:00 – 8:25 AM **ALPino to ALP: Solution to Small-Scale Problems**

**Speakers**

Kyu Jung Bae, Kyu Jung Bae, Kyu Jung Bae

8:25 – 8:50 AM

**Testing Dark Matter and Modifications to Gravity using Local Milky Way Observables**

**Speaker**

Oren Slone

8:50 – 9:15 AM

**Entanglement Suppression and Emergent Symmetries**

**Speaker**

David Kaplan

9:15 – 9:45 AM

**Coffee Break**

9:45 – 10:10 AM

**Quantum Science for HEP**

**Speaker**

Joseph David Lykken

10:10 – 10:45 AM

**LHC Experimental Summary and Outlook**

**Speakers**

Tulika Bose, Tulika Bose

11:20 AM