

Session Program

24-30 Mar 2019

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

Morning Session

Aspen Center for Physics, Flug Forum

Monday 25 March

08:00

Morning Session

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

08:00–08:25

Higgs Experimental Summary and Outlook

Speaker

Marumi Kado

08:25–08:50

Higgs Couplings

Speaker

Dorival Gonçalves

08:50–09:15

Double Higgs Production

Speaker

Caterina Vernieri

09:15–09:45

Coffee Break

09:45–10:10

LHC SUSY

Speaker

Keith Ulmer

10:10–10:35

LHC Exotics

Speaker

Matthias Danninger

10:35–11:00

Composite Higgs

Speakers

Ian Low, Ian Low, Ian Low

11:00

Tuesday 26 March

08:00

Morning Session

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

08:00–08:25

New Dark Matter Results from Noble Liquids

Speaker

Aaron Manalaysay

08:25–08:50

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

Speaker

Dr Silvia Scorza

08:50–09:15

New Techniques for Direct Detection

Speaker

Dr Peter Sorensen

09:15–09:45

Coffee Break

09:45–10:10

Recent results and prospects from LHCb

Speaker

Daniel Johnson

10:10–10:35

Belle II: Commissioning, First Results, Future Prospects

Speakers

Sven Vahsen, Sven Vahsen, Sven Vahsen

10:35–11:00

Theoretical interpretation of flavor anomalies

Speaker

Bibhushan Shakya

11:00

Wednesday 27 March

08:00

Morning Session

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

08:00–08:25

Structure Formation in a Dissipative Dark Sector**Speaker**

Daniel Egana-Ugrinovic

08:25–08:50

Dissipative Dark Matter and Active Galactic Nuclei**Speakers**

Walter Tangarife, Walter Tangarife, Walter Tangarife

08:50–09:15

Discovering Dark Forces with Molecules and Nuclei**Speaker**

Harikrishnan Ramani

09:15–09:45

Coffee Break

09:45–10:10

LHC DM Searches**Speaker**

Matteo Cremonesi

10:10–10:35

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

Gerald Eigen

10:35–11:00

Dark Sectors In FerMINI and Neutrino Experiments**Speakers**

Yu-Dai Tsai, Yu-Dai Tsai

11:00

Thursday 28 March

08:00

Morning Session

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

08:00–08:25

Neutrino Theory

Speaker

Joachim Kopp

08:25–08:50

Neutrino Mass Models

Speakers

Lisa Everett, Lisa Everett

08:50–09:15

Neutrinoless Double Beta Decay

Speaker

Jason Detwiler

09:15–09:45

Coffee Break

09:45–10:10

Long Baseline Neutrino Experiments - Overview and Outlook

Speakers

Jennifer Raaf, Jennifer Raaf

10:10–10:35

Nova and T2K

Speakers

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

10:35–11:00

Short Baseline Neutrino Experiments - Overview and Outlook

Speakers

Joshua Spitz, Joshua Spitz, Prof. Joshua Spitz

11:00

Friday 29 March

08:00

Morning Session

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

08:00–08:25

Recent advances in jet substructure

Speakers

Andrew Larkoski, Andrew Larkoski, Andrew Larkoski, Andrew Larkoski

08:25–08:50

Machine Learning in HEP

Speaker

Dan Guest

08:50–09:15

Machine Learning Theory Perspective

Speakers

Tilman Plehn, Tilman Plehn

09:15–09:45

Coffee Break

09:45–10:10

Precision measurements at LHC

Speaker

Josh Bendavid

10:10–10:35

Expectations for sensitivity to BSM physics at HL-LHC

Speaker

Laura Jeanty

10:35–11:00

g-2 @FNAL

Speaker

Adam Schreckenberger

11:00

Saturday 30 March

08:00

Morning Session

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

08:00–08:25

ALPino to ALP: Solution to Small-Scale Problems

Speakers

Kyu Jung Bae, Kyu Jung Bae, Kyu Jung Bae

08:25–08:50

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

Speaker

Oren Slone

08:50–09:15

Entanglement Suppression and Emergent Symmetries

Speaker

David Kaplan

09:15–09:45

Coffee Break

09:45–10:10

Quantum Science for HEP

Speaker

Joseph David Lykken

10:10–10:45

LHC Experimental Summary and Outlook

Speakers

Tulika Bose, Tulika Bose

11:20