



# ASPEN CENTER FOR PHYSICS

2019 WINTER CONFERENCE

## IN PURSUIT OF NEW PARTICLES AND PARADIGMS

March 24-30, 2019

Sunday evening reception through Saturday morning

Several basic mysteries, including the nature of dark matter, the origin of the matter-antimatter asymmetry, the dynamics underlying neutrino masses, the structure of fermion masses and mixings, and the naturalness problems compel the search for a new paradigm in our description of matter and forces going beyond the Standard Model. With the expected completion of LHC Run II in late 2018, this conference will provide a timely opportunity to take stock of this effort with a broad overview of the latest experimental results and theoretical advances in the field. Special priority will be given to innovative experimental approaches and imaginative theoretical ideas likely to shape research directions in the near future. Through intense interaction and cooperation, physicists with diverse expertise across theory and experiment will strive to make progress on the fundamental questions at the frontiers of particle physics.

**Application deadline is December 15, 2018**

Please complete your application at:  
<http://www.aspenphys.org/physicists/winter/winterapps.html>

Conference Website:  
<https://indico.cern.ch/e/aspenwinter2019>

**SCIENTIFIC ORGANIZING COMMITTEE:**

Brian Batell, University of Pittsburgh  
Laura Baudis, University of Zurich  
Tao Han, University of Pittsburgh  
James Hirschauer, Fermi National Accelerator Laboratory  
\*Tongyan Lin, University of California San Diego

*\*Denotes physicist in charge of diversity*

Proposals for the 2020 Winter Conferences are invited and must be submitted by January 15, 2019

The Aspen Center for Physics is committed to a significant participation of women and under-represented groups in all of its programs.

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