



# ASPEN CENTER FOR PHYSICS

## 2020 WINTER CONFERENCE QUANTUM MATTER: COMPUTATION MEETS EXPERIMENTS

March 8 through 13, 2020  
Sunday evening welcome reception  
Meetings Monday through Friday evening

The past few years have seen tremendous advances in our understanding of strongly interacting quantum systems. By combining progress in theoretical concepts and methods with algorithmic advances, computational methods have shed new light on key open questions in the physics of quantum matter, both for materials with strong electronic correlations and for interacting quantum gases. At the same time, new materials and new techniques have greatly increased the range of experimental information available.

This Aspen Winter Conference will bring leading theorists with expertise in a broad range of computational methods together with experimentalists to discuss the potential of new methods, the accomplishments of existing methods and opportunities for future experiment/theory collaboration. The meeting will focus on a broad set of physics questions of current interest in the field, for which computational methods and experiments have brought or have the potential to bring new insights.

**Application deadline is December 15, 2019**

Please complete your application at:

<http://www.aspenphys.org/physicists/winter/winterapps.html>

Conference Website: <https://indico.flatironinstitute.org/event/112/>

### ORGANIZERS

Antoine Georges, Collège de France and Flatiron Institute

Emanuel Gull, University of Michigan

Gabriel Kotliar, Rutgers University and Brookhaven National Laboratory

\*Andrew Millis, Columbia University and Flatiron Institute

Karin Rabe, Rutgers University

*\*Denotes physicist in charge of diversity*

Proposals for the 2021 Winter Conferences are invited and must be submitted by January 15, 2020

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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