

## 2020 SUMMER PROGRAM May 24 to September 13, 2020

The program of the Aspen Center for Physics is based on individual and collaborative research and the informal exchange of ideas. In an environment free from normal distractions, more than five hundred scientists from over a hundred U.S. and international institutions participate in the Center's summer program, with eighty to ninety in residence at any one time. Research interests include astrophysics, biophysics, condensed matter physics, dynamical systems, elementary particle physics, mathematical physics and statistical physics. The stimulating interaction among participants with diverse interests and backgrounds is one of the most fruitful aspects of the program. Opportunities for collaboration and for initiating new research are always available as colleagues from a variety of subfields are present throughout the summer. In addition to the unstructured program of Individual Research and Working Groups, Informal Workshops are also scheduled.

Individual Research, any physicist can apply in this category May 24 to Sept 13 Working Groups, for 2 to 6 collaborators May 24 to Sept 13 **Informal Workshops** Nu Intersections: Neutrino Physics at a Crossroad May 24 to June 14 May 24 to June 14 Transport and Mixing of Tracers in Geophysics and Astrophysics From Chaos to Hydrodynamics in Quantum Matter May 24 to June 21 Black Hole Formation, Accretion, and Outflows through Cosmic Time June 14 to July 5 New Directions for Quantum Dynamics in Topological, Disordered, and Correlated Systems June 14 to July 5 Data Driven Discovery in High-Throughput Biology June 21 to July 12 TT Deformation, Generalizations, and Applications July 5 to July 26 Galactic Archaeology with Fundamental Stellar Parameters: Synthesizing the Power of Accurate Ages with Distances, Chemistry, and Kinematics July 12 to Aug 2 July 26 to Aug 16 Electronic Topology across the Correlation Spectrum Aug 2 to Sept 6 Dark Matter from the Laboratory to the Cosmos New Discoveries in the Era of High-Resolution, Low-Noise CMB Experiments Aug 16 to Sept 13 Aug 16 to Sept 13 Geometry and the Quantum

Physicists who wish to pursue a serious program of research at the Center are invited to apply. Applications by small working groups and independent researchers are strongly encouraged. The Aspen Center for Physics is committed to providing an inclusive and welcoming environment for all. The Center does not discriminate based on personal factors including (but not limited to) race, color, national or ethnic origin, alienage, age, religion, creed, sex, sexual orientation, gender identity or expression, marital status, political affiliation or philosophy, disability or veterans' status. An effort is also made to select a diversity of participants from a wide field of physics, ranging in experience from post-doctoral fellows to senior scientists, and representing a variety of institutions. Special consideration is given to physicists who have never participated or who have not participated recently. While there are no experimental facilities available, experimentalists are encouraged to participate in the Center's programs.

Many summer participants bring their families with them to Aspen. Numerous childcare and day-camp options are available within the Aspen/Snowmass area and current information and advice is available through the Center and local websites. Weekly picnics at the Center give families an opportunity to meet and share activities.

Individual participants must provide for their own expenses from their contracts, grants, fellowships or regular appointments. Through the National Science Foundation Grant # PHY-1607611, the Center provides partial financial support for the housing we arrange.

## Application Deadline is January 31, 2020

More detailed information and online applications at http://aspenphys.org/physicists/summer/index.html

Proposals for the 2021 Summer Workshops are invited.

Proposal information is available on our website at http://aspenphys.org/physicists/proposals/index.html
For full consideration, proposals should be submitted by May 30, 2020.
Those received after this date will be considered only in exceptional circumstances.

Proposals for the 2021 Winter Conferences are also invited.

The deadline to submit them is January 15, 2020.

Aspen Center for Physics 700 West Gillespie Street, Aspen, CO 81611 phone: 970.925.2585 email: acp@aspenphys.org

The Aspen Center for Physics is guided by a policy of equal opportunity and non-discrimination.

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PHYSICS IN ASPEN: SIMONS FOUNDATION GRANT

Attend workshops in Astrophysics, Biophysics, Condensed Matter Physics or Particle Physics

The rigorous selection process examines your publications and work in your field. Most successful candidates have finished their doctoral degrees. Applications are due by January 31, 2020 at aspenphys.org.



May 24, 2020 to September 13, 2020

Come for two to five weeks to work on your own research or join one of 12 workshops

**The Simons Foundation Grant pays registration,** housing and some travel for physicists from countries with inadequate science funding to attend the **Aspen Center for** Physics. ACP is a theoretical physics research center since 1962. Over 1000 scientists per year meet in the Rocky Mountains in Colorado, accessible by air or by driving from Denver.

ASPEN CENTER FOR PHYSICS

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