



2021 SUMMER PROGRAM

May 30 to September 19, 2021

The program of the Aspen Center for Physics is based on individual and collaborative research and the informal exchange of ideas. Research interests include astrophysics, biophysics, condensed matter physics, dynamical systems, elementary particle physics, mathematical physics and statistical physics. In an environment free from normal distractions, 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. Our operations and protocols may be modified based on CDC recommendations and we will update our website with information about the upcoming season as it becomes available.

INDIVIDUAL RESEARCH – any physicist can apply in this category **May 30 to Sept 19**

WORKING GROUPS – for 2 to 6 collaborators **May 30 to Sept 19**

INFORMAL WORKSHOPS

Transport and Mixing of Tracers In Geophysics and Astrophysics **May 30 to June 13**

Galactic Archaeology with Fundamental Stellar Parameters: Synthesizing the Power of Accurate Ages with Distances, Chemistry, and Kinematics **May 30 to June 20**

Biology, Biophysics and Epidemiology of COVID-19 and Other Pandemics **June 6 to June 27**

Black Hole Formation, Accretion, and Outflows Through Cosmic Time **June 13 to July 4**

New Directions for Quantum Dynamics in Topological, Disordered, and Correlated Systems **June 20 to July 11**

Exploring Extreme Matter in the Era of Multimessenger Astronomy: from the Cosmos to Quarks **June 27 to July 25**

Electronic Topology across the Correlation Spectrum **July 11 to Aug 1**

Dark Matter from the Laboratory to the Cosmos **July 25 to Aug 29**

Bootstrapping String Theory **Aug 1 to Aug 22**

Geometry and the Quantum **Aug 15 to Sept 5**

From Chaos to Hydrodynamics in Quantum Matter **Aug 22 to Sept 19**

Nu Intersections: Neutrino Physics at a Crossroad **Aug 29 to Sept 19**

New Discoveries in the Era of High-Resolution, Low-Noise CMB Experiments **Sept 5 to Sept 19**

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. Limited financial support is available for young physicists, women, members of underrepresented groups, and those with childcare obligations. Requests for financial support may be submitted through our application.

APPLICATION DEADLINE – JANUARY 31, 2021

MORE DETAILED INFORMATION AND ONLINE APPLICATIONS AT
<https://aspenphys.org/physicists/index.html>

PROPOSALS FOR THE 2022 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 2022 WINTER CONFERENCES ARE ALSO INVITED

The deadline to submit them is January 15, 2021

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

ASPEN CENTER FOR PHYSICS

700 West Gillespie Street
Aspen, Colorado 81611
ph – 970 925 2585
email – acp@aspenphys.org

THE ASPEN CENTER
FOR PHYSICS IS
SUPPORTED BY THE
NATIONAL SCIENCE
FOUNDATION GRANT
NO. PHY-1607611

