ASPEN CENTER FOR PHYSICS

2027 SUMMER PROGRAM

May 30 to September 19, 2027

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. Physicists who wish to pursue a serious program of research at the Center are encouraged to apply.

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

Novel and Exotic Superconductivity	May 30 to June 13
Quantum Sensing in Materials	May 30 to June 20
Mechanisms, Simulations, and Data: New Physics in Precision Cosmology	May 30 to June 20
Statistics of the Gravitational Path Integral	June 13 to July 4
Structure and Symmetry in Quantum Lattice Matter	June 20 to July 11
Emerging Probes and Enduring Puzzles in Particle Physics	June 20 to July 18
Fundamental Quantum Physics with Simple Systems	July 11 to Aug 1
Physics-Inspired Machine Learning for Biological Discovery	July 18 to Aug 8
Line-Intensity Mapping the Early Universe	Aug 1 to Aug 22
Precision Predictions for Colliders in the Era of AI and QI	Aug 8 to Aug 29
From Novel Quantum Platforms to Quantum Technologies	Aug 15 to Sept 12
Physics of Biomolecular Condensates Through the Lens of Phase Transitions	Aug 22 to Sept 19
Sources of Hard-Ionizing Radiation in Starburst Galaxies	Aug 29 to Sept 19

The Aspen Center for Physics is committed to providing a 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 participants ranging in experience from postdoctoral fellows to senior scientists, and representing a variety of scientific approaches and 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. Various childcare and day-camp options are available within the Aspen/Snowmass area from mid-June to Mid-August. 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. Visit aspenphys.org/families to learn more.

Individual participants must provide for their own expenses from their contracts, grants, fellowships or regular appointments. Through the National Science Foundation Grant # PHY-2210452, the Center provides partial financial support for the housing we arrange. Limited financial support is available for participants who would otherwise be unable to participate in the program. Requests for financial support should be submitted during the application process.

APPLICATION DEADLINE — JANUARY 15, 2027

MORE DETAILED INFORMATION AND ONLINE APPLICATIONS AT
https://aspenphys.org/summer/

PROPOSALS FOR 2028 ARE INVITED
SUMMER 2028 DUE MAY 31, 2027. WINTER 2028 DUE JAN 15, 2027 AT ASPENPHYS.ORG

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