

2025 SUMMER PROGRAM

May 25 to September 14, 2025

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 25 to Sept 14**

WORKING GROUPS – for 2 to 6 collaborators **May 25 to Sept 14**

INFORMAL WORKSHOPS

Bootstrap, Holography & Swampland: Imprint of UV Principles on IR physics **May 25 to June 15**

Beyond von-Neumann Computing: Leveraging Novel Physics for the Future of Computation **May 25 to June 15**

Lyman Alpha Emitters and Lyman Break Galaxies as Cosmological Tracer Populations **June 1 to June 29**

New Challenges in Nanoscale Biophysics **June 15 to July 6**

Collider Physics at the LHC and Beyond **June 15 to July 13**

Cosmic Change Agents: Massive Stars in the Early Universe **July 6 to July 27**

Cold and Ultracold Molecules for Fundamental Physics and Many-Body Quantum Science **July 13 to Aug 3**

Ultra Quantum Matter: Synergy Between Theory and Experiment **July 27 to Aug 17**

Physics in the Era of Nanohertz Gravitational Waves **Aug 3 to Aug 24**

Topological Quantum Many-Body Systems **Aug 10 to Sept 7**

Strongly Interacting Quantum Matter at the Electron-Ion Collider **Aug 17 to Sept 14**

Recent Developments in String Theory **Aug 24 to Sept 14**

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 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 young physicists, women, members of underrepresented groups, and those with childcare obligations. Requests for financial support should be submitted during the application process.

APPLICATION DEADLINE – JANUARY 31, 2025

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

PROPOSALS FOR 2026 ARE INVITED
SUMMER 2026 DUE JUNE 15, 2025. WINTER 2026 DUE JAN 15, 2025 AT ASPENPHYS.ORG

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

ASPEN CENTER FOR PHYSICS

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