

ASPEN CENTER FOR PHYSICS

2010

SUMMER PROGRAM MAY 23 TO SEPTEMBER 12, 2010

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 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 divergent 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, the following informal workshops are scheduled for the summer of 2010.

INFORMAL WORKSHOPS

- Independent Research May 23 to Sept 12
- Working Groups May 23 to Sept 12
- Critical Behavior of Lattice Models in Condensed Matter
and Particle Physics May 23 to June 13
- Strong Dynamics Beyond the Standard Model May 23 to June 13
- Forefront QCD and LHC Discoveries May 23 to June 20
- GeV and TeV Sources in the Milkyway June 13 to June 27
- Astrophysics and Cosmology with the 21-cm Background June 13 to July 4
- From Colliders to the Dark Sector: Understanding Dark Matter
at Particle Colliders and Beyond June 20 to July 18
- New Mathematical Methods in Quantum Gauge Theories June 27 to July 25
- Low Dimensional Topological Matter July 18 to Aug 8
- Quantum Many-Body Physics in One Dimension July 25 to Aug 22
- Taking Supernova Cosmology into the Next Decade Aug 8 to Aug 22
- Star Formation in Galaxies: From Recipes to Real Physics Aug 22 to Sept 12
- New Perspectives in Strongly Correlated Electrostatics
in Soft Matter Aug 22 to Sept 12
- Patterns on Thin Sheets: From Stressed Inanimate Materials
to Biomembranes and Growing Tissues Aug 22 to Sept 12

Proposals for 2011 Summer Workshops are invited.

Proposal information may be obtained from our website and should be returned to the Center by June 30, 2010. Proposals received after this date will be considered only in exceptional circumstances.

Proposals for the 2011 Winter Conference are also invited.

They should be returned to the Center by December 31, 2009.

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 also strongly encouraged. An effort is 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. The Aspen Center for Physics is committed to the significant participation of women and under-represented groups in all of its programs. While there are no experimental facilities available, experimentalists are encouraged to participate in the Center's program.

Many summer participants wish to 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 give families an opportunity to meet and share activities.

Individual participants must provide their own salaries from their contracts, grants, fellowships or regular appointments. The Center provides partial financial support through subsidized housing.

Application Deadline is January 31, 2010

More detailed information and online applications at www.aspenphys.org

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

