



ASPEN CENTER FOR PHYSICS

2016 WINTER CONFERENCE

THE RE-IONIZATION EPOCH: NEW INSIGHTS AND FUTURE PROSPECTS

March 6-12, 2016

Sunday evening reception

Meetings Monday morning through Saturday noon

The past few years have seen enormous progress in our ability to observe and characterize the very early universe before the end of cosmic re-ionization within the first one billion years of cosmic history. The first generations of galaxies can now be studied in unprecedented detail using large multi-wavelength datasets from the Hubble, Spitzer, and Chandra Space Telescopes, as well as 8-10 m-class ground-based telescopes. Additionally, ALMA is starting to probe completely new parameter space at millimeter wavelengths, promising revolutionary insights into molecular gas, dust, and dynamics at high redshift. Early galaxy and quasar searches are being pushed into new territory with upcoming deep near-infrared surveys covering several square degrees. New advances in computational astronomy have led to a new generation of early universe simulations reaching unprecedented mass resolution over large volumes. Future capabilities (JWST; SKA precursors; etc), combined with current ground and space observatories, will greatly enhance our ability to explore the re-ionization epoch in even greater detail. The goal of our proposed meeting is to bring together a wide community of observers and theorists to discuss both recent progress as well as future perspectives for galaxy studies within the first billion years and for cosmic re-ionization.

Application deadline is December 15, 2015

Please complete your application at:

<http://www.aspenphys.org/physicists/winter/winterapps.html>

For further information please visit: http://firstgalaxies.org/aspen_2016/

ORGANIZERS:

- Garth Illingworth, University of California, Santa Cruz
- *Pascal A. Oesch, Yale University
- Benedetta Ciardi, Max Planck Institute for Astrophysics
- Stuart Wyithe, University of Melbourne
- Jacqueline N. Hewitt, Massachusetts Institute of Technology
- Jennifer Lotz, Space Telescope Science Institute
- Rychard Bouwens, Leiden Observatory
- Guinevere Kauffmann, Max Planck Institute for Astrophysics
- Fabian Walter, Max Planck Institute for Astronomy
- *Denotes physicist in charge of diversity

Proposals for the 2017 Winter Conferences are invited and must be submitted by January 15, 2016
The Aspen Center for Physics is committed to a significant participation of women and under-represented groups in all of its programs.

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