



# ASPEN CENTER FOR PHYSICS

**2013 WINTER CONFERENCE**

ON

**PARTICLE PHYSICS**

**February 3 - 9, 2013**

**Reception Sunday evening**

**Meetings Monday morning through Saturday noon**

## **NEW DIRECTIONS IN NEUTRINO PHYSICS**

Nearly a decade ago, a clear path forward was developed by the neutrino physics community. Exciting new results have recently come out as early steps along that path. The time is now ripe to look at new experimental ideas that have arisen and the performance of current experiments. This conference will take the current status of experiments as its launching point. We will examine new accelerator and reactor oscillation results, prospects for learning about the mass hierarchy and leptonic CP violation, and potential for observing new physics in oscillation experiments. We will also cover the latest developments in neutrino physics, astrophysics and cosmology more broadly, including neutrinoless double beta decay, neutrino interactions, and supernovae. The emphasis of the conference will be on how new experimental techniques and theoretical ideas will impact the future directions of the field.

**Application deadline is November 30, 2012**

Please complete your application at [www.aspenphys.org](http://www.aspenphys.org)

#### **ORGANIZERS:**

André de Gouvêa, Northwestern University  
Carter Hall, University of Maryland  
Gail McLaughlin, North Carolina State University  
Ryan Patterson, California Institute of Technology  
David Saltzberg, University of California, Los Angeles  
Kate Scholberg, Duke University  
Cristina Volpe, APC-Astroparticule et Cosmologie, Paris

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, CO 81611



phone: 970.925.2585    fax: 970.920.1167    email: [jane@aspenphys.org](mailto:jane@aspenphys.org)

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