Cosmology is ready for some new ideas. There are the standard paradigms – inflationary theory, WIMP dark-matter, and the cosmological constant – that suggest we have an answer to the big questions about the origin, evolution, composition, and future of the universe, though, none of the standard paradigms is complete or without problems. This program is designed to promote collaboration among theorists who share the same interest of finding truly novel approaches to the big open questions of cosmology.

Information is available online at http://pcts.princeton.edu/pcts/

Workshop Organizers: Anna Ijjas (PCTS), Paul Steinhardt (PCTS/Princeton)

Speakers

Itzhak Bars, USC
Lasha Berezhiani, Princeton University
Gregory Gabadadze, NYU
Chris Hill, Fermilab
Holger Mueller, Berkeley
Slava Mukhanov, Munich University
Burt Ovrut, University of Pennsylvania
Valery Rubakov, Russian Academy of Sciences
David Spergel, Princeton University
Neil Turok, Perimeter
Herman Verlinde, Princeton University