Towards the beginning of time: Cosmology at high energies

Nov 13, 2023 – Nov 15, 2023
PCTS, Room 407 Jadwin Hall, Princeton University

In recent years, important progress in understanding the quantum theory of fields in time-dependent, or cosmological, spacetime backgrounds that resemble the evolution of our universe has been achieved by harnessing modern theoretical tools that were developed for time-independent quantum field theory (QFT) and black-hole physics. These modern tools include the bootstrap program, the scattering amplitudes program, quantum gravity from the Euclidean path integral, the holographic principle, quantum information theory, algebraic QFT, and worldsheet string theory. The aim of this three-day workshop is to bring together experts from these sub-communities with the hope of cross-fertilizing research in cosmology at high energies.

Organizers: Minjae Cho, Victor A. Rodriguez, Zimo Sun

SPEAKERS

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