

Computer Simulation Recreates the Universe From Big Bang to Today



April 27, 2015

Thursday, April 30, 1:30-3:00 PM, [Institution for Social and Policy Studies \(ISPS\), A001](#) [1]

This talk on Thursday—the latest in the *Day of Data* series—will examine a computer simulation recreating the universe from the Big Bang to today.

We live in a remarkable era. We can directly see how our universe has evolved over time in the past 13.8 billion years after the Big Bang. Today, we use astronomical observations and computer simulations in combination to test some of our wildest imaginations about what our universe is made of and how it began and evolved over the cosmic time. In this lecture, Daisuke Nagai will describe the state of affairs on our understanding of the universe and how computational modeling plays an essential role in interpreting ever-growing astronomical datasets of galaxies, stars, and planets and addressing some of the most confounding questions about our own universe.

Daisuke Nagai is an Associate Professor of Physics and Astronomy at Yale University. His research interests lie in the area of cosmology and astrophysics, specializing in theoretical and computational modeling of the structure formation of the Universe and its application to cosmology.

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