

Bethe Colloquium

Ed Copeland

Nottingham University

Approaches to understanding dark energy

Dark Energy is the name given to the illusive substance that appears to be driving the acceleration of the expansion of our Universe. It's name has come to reflect our uncertainty as to the what the substance is: a cosmological constant, an evolving scalar field, the impact of a modification of General Relativity on large scales, or maybe just the inhomogeneity of our own universe? We will go through a number of the current options, discuss how we may test for them, from galactic down to atomic scales, and we will ask whether the current Hubble tension is driving us to the possibility that new physics kicked in around the time of radiation-matter equality (or earlier !) in the form of early dark energy.

BCTP, Room W 2.019 - Wegelerstr. 10 - 53115 Bonn

Thursday, January 18, 2024, at 4:15 p.m.

**Bethe Center for
Theoretical Physics**

Physikalisches Institut
Universität Bonn
Nussallee 12
53115 Bonn

phone (+49)228/73-3770
mail theory@physik.uni-bonn.de



For detailed information visit us at: <http://bctp.uni-bonn.de>