

Tata-Infosys Lectures

Emergence of Bulk Physics in AdS/CFT

Lecture 1 Date: Feb 1, 2017

Time: 11.30 am

Lecture 2 Date: Feb 3, 2017

Time: 11.30 am

Lecture 3 Date: Feb 6, 2017

Time: 11.30 am

Lecture 4 Date: Feb 7, 2017

Time: 11.30 am

Daniel Harlow (Harvard University)

Venue: A-304, TIFR

(Duration and Location are subject to irreducible jitter)

In this lecture series I will review a series of recent developments which relate the AdS/CFT correspondence to the theory of quantum error correcting codes. We will see that many surprising features of the correspondence, including locality in the radial direction, subregion duality, and the Ryu-Takayanagi formula arise quite naturally in the theory of quantum error correcting codes, which thus give a new, non-perturbative picture of the duality.