



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Narain to Narnia

(Zoom Seminar)

Hirosi Ooguri

(Caltech & Kavli IPMU)

Date: April 2, 2021

Time: 9.00 am IST

Zoom link shall be shared separately



Recently, a new type of holographic pair has been found, in which quantum gravity theories are dual to random ensembles of quantum mechanical systems in one and two dimensions. This discovery has revived questions on the role of wormholes in quantum gravity and its implications in holography. I will discuss their generalization in the context of three-dimensional gravity theories. Mathematical theory of knots and their relation to hyperbolic geometry plays an important role.