



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Random Matrix Universality for Black Holes in Supergravity

(Zoom Seminar)

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Time: 10 AM IST

Zoom link shall be shared separately



Some aspects of the black hole spectrum, arising from spacetime wormhole contributions to the gravitational path integral, can be modeled by a random matrix ensemble. It is important to understand the appropriate ensemble for theories with extended supersymmetry, since it applies to systems coming from string theory with known gravity duals. We will derive a random matrix ensemble for quantum mechanics with two supercharges, and to illustrate the relation with black holes in a precise setting we will show that it is dual to $N=2$ JT gravity in AdS.