



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2732

Type: **Invited Speaker** / **Conférencier(ère) invité(e)**

Boundary conditions, zero modes, and spacetime entropy

Tuesday 4 June 2019 11:15 (30 minutes)

How do we describe the local Hilbert space of a continuum field theory? And does this have lessons to teach us about the emergence of spacetime in AdS/CFT? I will describe how to define the Hilbert space of an interval in a CFT without turning to abstruse mathematics. For CFTs with a gravitational dual, this leads to a theory of gravitational membranes and new insights for understanding spacetime entropy.

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Session Classification: T2-9 Fields and Strings I (DTP) | Champs et cordes I (DPT)

Track Classification: Theoretical Physics / Physique théorique (DTP-DPT)