ADS/CFT THOUGHTS 20 YEARS AFTER.

ELIEZER RABINOVICI (HUJI- Jerusalem)

- Lots of common work with J. Barbon (Madrid)
ELIEZER RABINOVICI- THOUGHTS 20 YEARS AFTER.

What I was Surprised by from AdS/CFT:
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- Prejudice: KK.
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- ONE NEEDS TOPOLOGICAL DIVERSITY (BH INFORMATION ISSUES)
- Prejudice- too hard to prove.
What I was Surprised by from AdS/CFT:

- THE IR DIMENSION CAN BE LARGER THAN THE UV ONE (10>4) ANTI KK-PREJUDICE

- ONE NEEDS TOPOLOGICAL DIVERSITY (BH INFORMATION ISSUES)

- SEMI-CLASSICAL GEOMETRIES CAN CAPTURE SOME INCLUSIVE $\exp(-S)$ EFFECTS. AND MISS EXCLUSIVE ONES. (BHI, ER=EPR)
\[ C(t) = \sum_{mn} \rho_m |B_{mn}|^2 e^{i(E_m - E_n)t} \]

\[ C(0) = 1 \]

\[ \rho_m \sim e^{-S} \]

\[ |B_{mn}| \sim e^{-S/2} \]

detailed Poincaré time scale
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- DOES COMPLEXITY DECREASE AS IT APPROACHES GENERIC SPACE LIKE SINGULARITY? IT DOES IN CASES. HOW DOES THE STATE SIMPLIFY ON ITS WAY TO THE SINGULARITY.

- Prejudice-Exp(-S) has other origins.
Figure 7: Regularized codimension-one surfaces for dS/Crunch models with $M \gg 1$ (left) and $M \ll 1$ (right). The surfaces are anchored at a particular codimension-one surface of the boundary, labeled by Einstein frame time $t$, and can be analyzed in terms of two qualitatively different components $\Sigma_t = \Sigma_{UV} \cup \Sigma_{IR}$. 
MULTI BOUNDARY UNIVERSE?

\[ |G\rangle = \sum_n |n\rangle_A \ g_{nm} \ |m\rangle_B \]

A-side of ... AdS$_{bh}$

B-side of ... AdS$_{bh}$
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