



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Is Holography Implicit in Canonical Gravity?

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We conjecture that, in asymptotically anti-de Sitter space, two solutions of the Wheeler-DeWitt equation that coincide asymptotically must also coincide in the bulk. This suggests that the essential elements of holography are already present in canonical gravity. Our argument sheds light on why holography works only in gravitational theories, and also on the significance of anti-de Sitter boundary conditions.