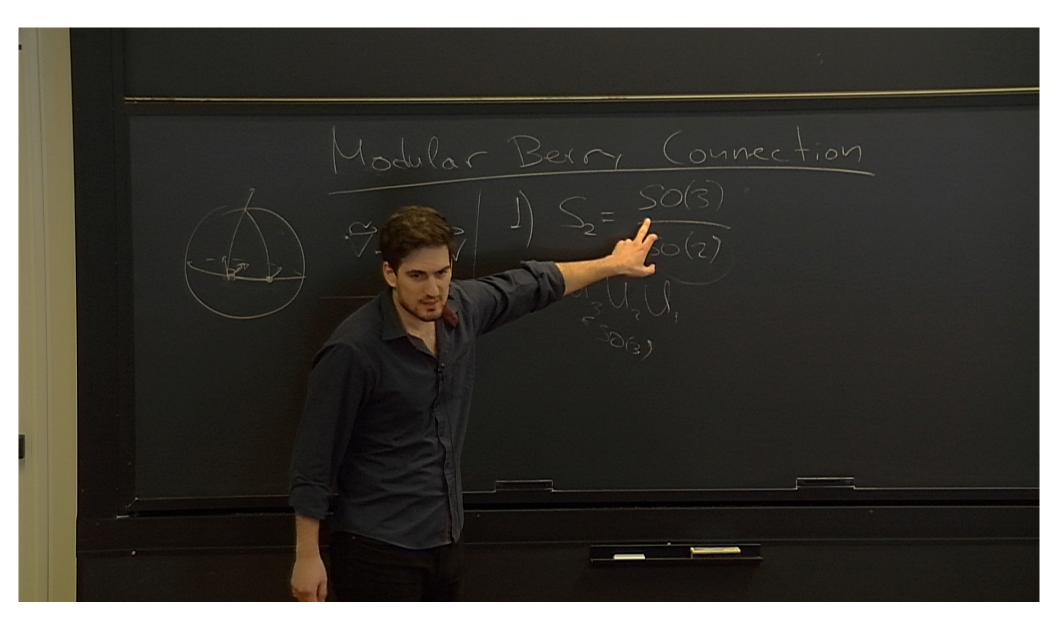
Title: Modular Berry Connection

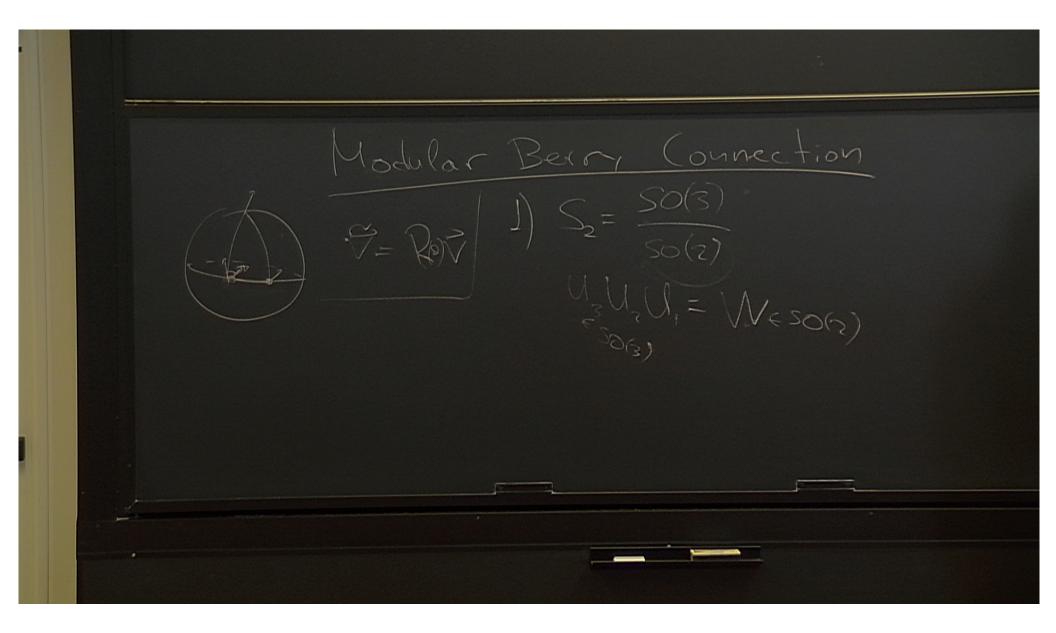
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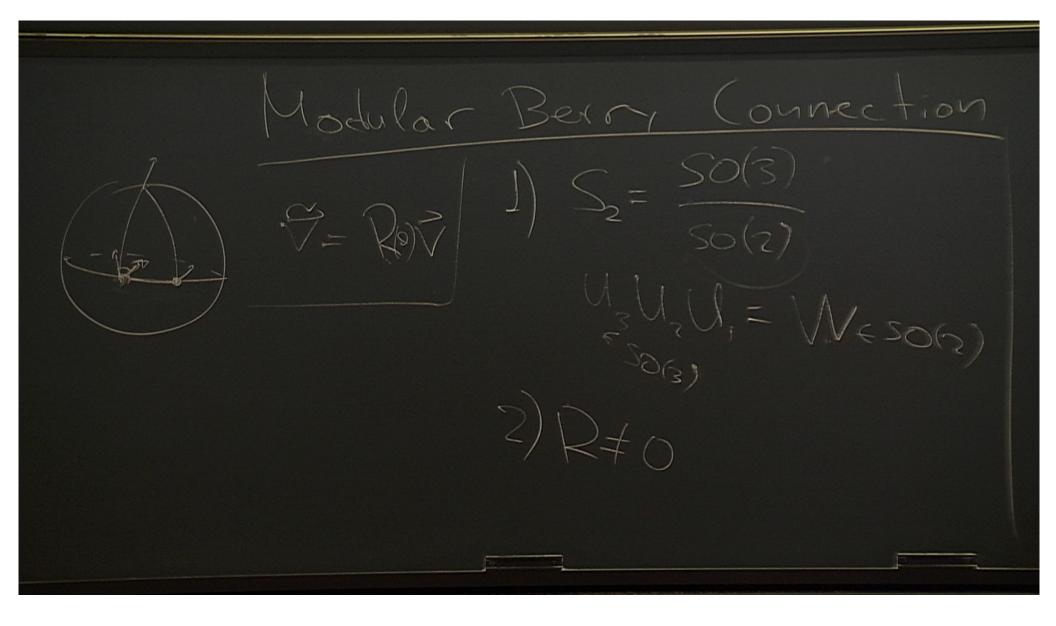
URL: http://pirsa.org/18020082

Abstract: States of a CFT's subregions are consistent with a given global state. For a holographic CFT, this amounts to different entanglement wedges being patches of the same geometry. What relations between them make this possible?

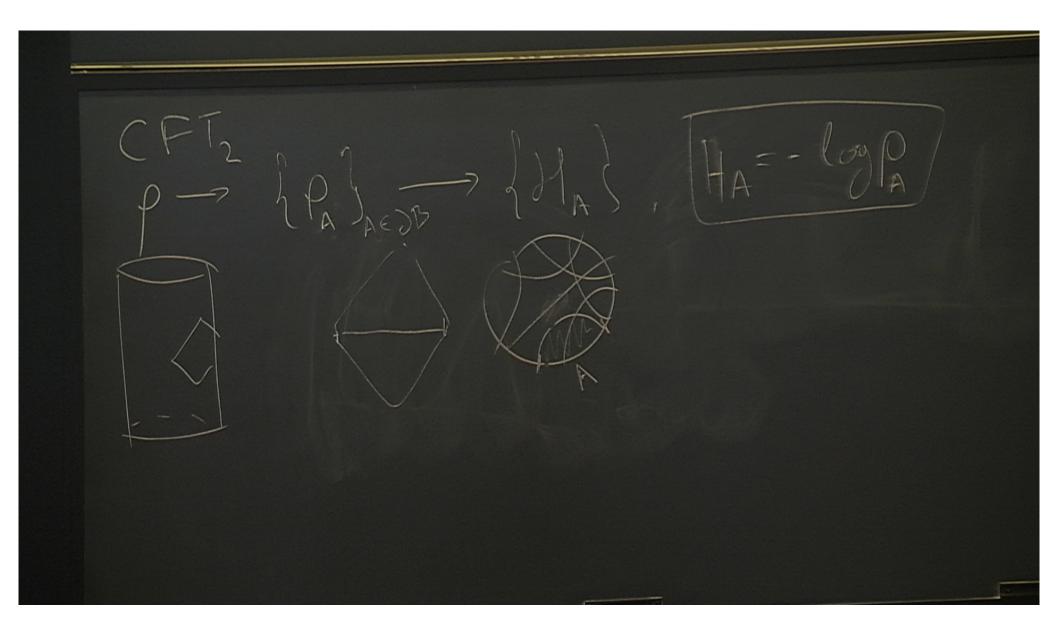
I will propose a Berry experiment to study this question. Berry introduced a connection to describe transformations induced by adiabatically varying Hamiltonians. I will introduce a connection to study how the zero modes of a modular Hamiltonian are affected by varying the CFT subregion that supplies it. I will explain the geometric meaning of modular Berry phases in the bulk and describe an experiment to measure them which involves observers moving with adiabatically varying accelerations.

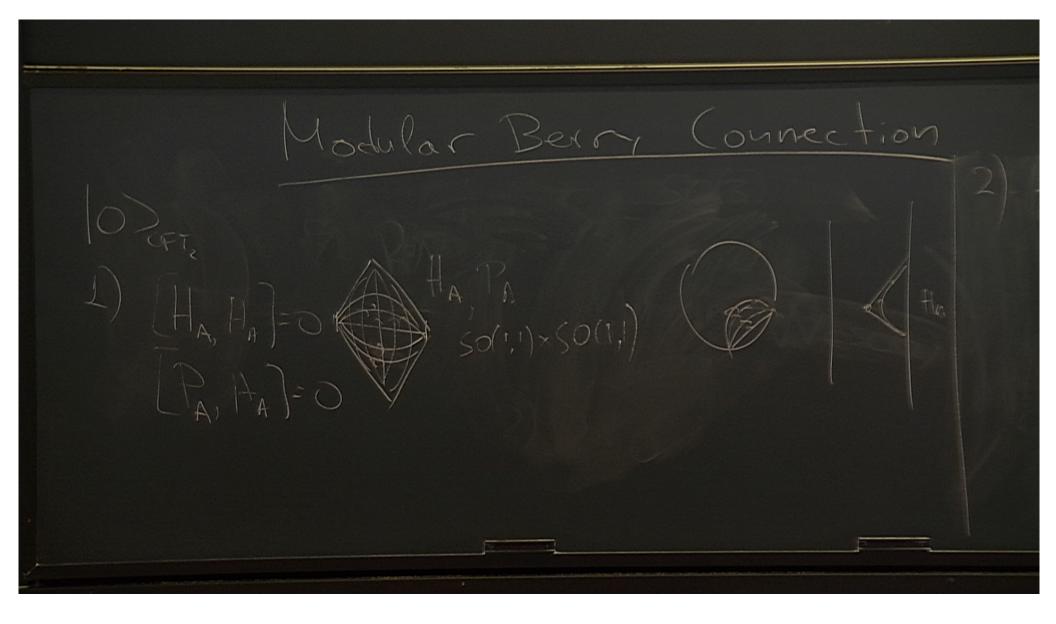


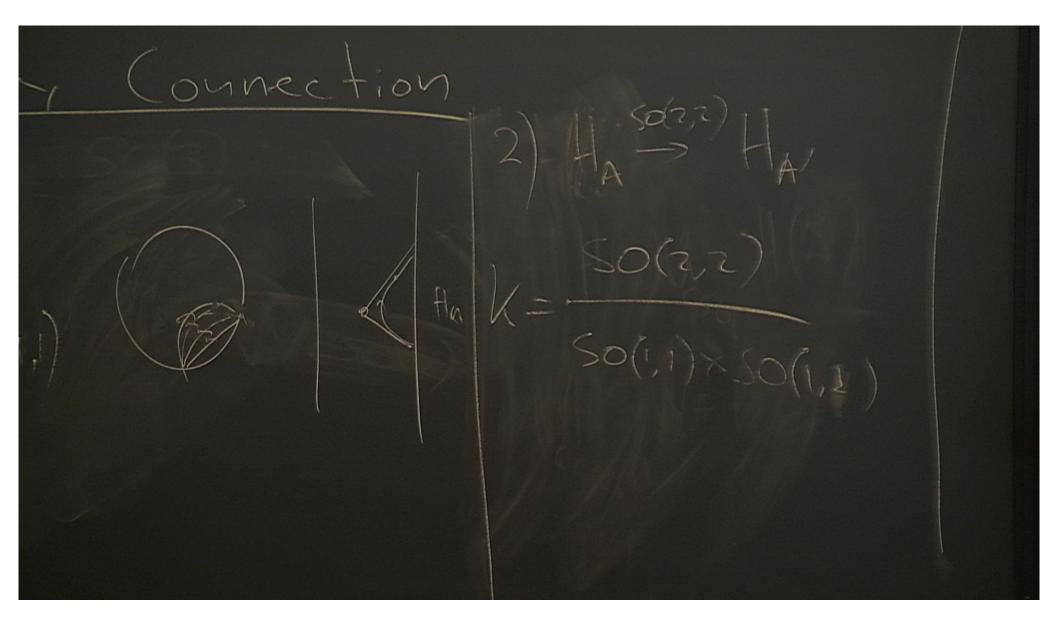


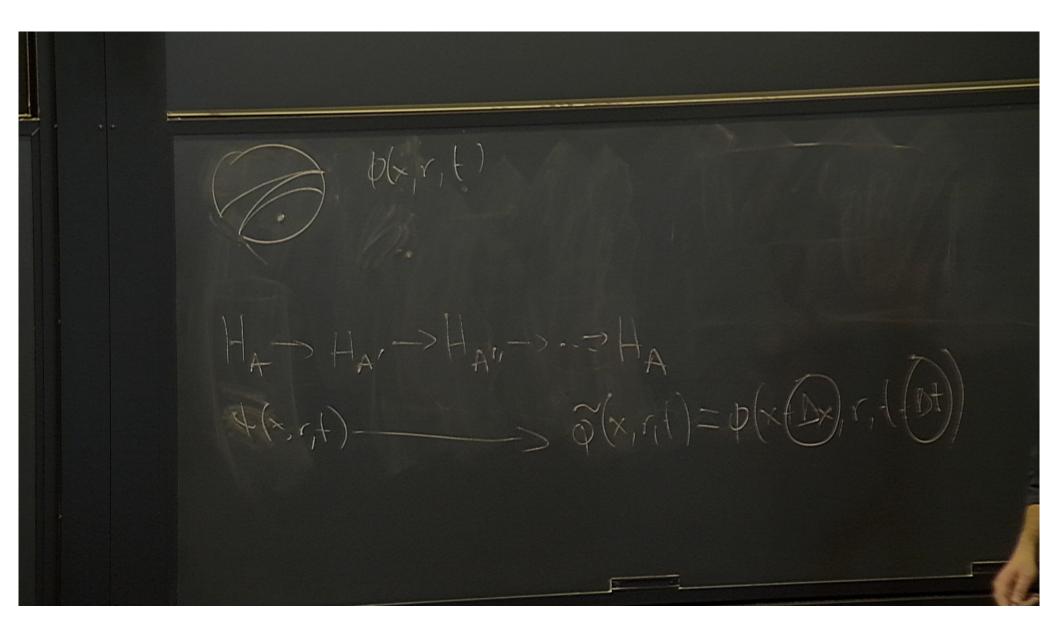


Modular Berry Connection









Modular Berry Connection $\neg \tilde{\mathbb{P}}(x, Dx) = 2$

Modular Berry Connection

