

Physics Seminar: Kristan Jensen  
Wednesday, May 7 · 2:00 – 3:00pm

Location: 313

Title: "On the norm of the Hartle-Hawking state in dS3 gravity"

Abstract: I will discuss some work in progress computing the norm of the Hartle-Hawking state in models of three-dimensional gravity with positive cosmological constant coupled to matter. To one-loop order and including the contributions from universes with sphere boundaries in the far future, the result appears to be  $\exp(|Z|)$  with  $Z$  the sphere partition function.