



Department of
Theoretical Physics

The Quantum Space-Time Seminar

Superstring partition functions in AdS3

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Date and time: Aug 26 (11 am)
Venue: A 304

The zoom link will be sent separately.



I will review the computation of the string partition function in AdS3 focussing on the appearance of spacetime (super) symmetries. I will show how the asymptotic symmetries of the AdS3 spacetime, which generate the boundary (super) Virasoro currents, are captured by the one-loop partition sum. This result can then be used to argue that the recent understanding of near-extremal black hole thermodynamics based on the gravitational path integral continues to hold for finite string length. I will comment on several aspects of the AdS3/CFT2 duality along the way..