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*** CANCELLED*** Extending Lattice H2 to AdS3

Wednesday, August 5, 2020 2:40 PM (20 minutes)

In a recent work, we describe and quantify a method for setting up a lattice for quantum field theory in AdS2 based on the triangle group, which enables maximally symmetric tilings of hyperbolic space. Here we extend this lattice setup to the AdS3 cylinder via Hamiltonian methods, enabling us to study dynamical systems. We verify basic properties of this discretized Euclidean AdS3 space with the continuum, such as propagators and the four-point function. For the latter, using a "conformal center of mass frame" we are able to make the kinematic variables of the configuration conformal, providing a convenient framework for further study.

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