

Abstract Submitted  
for the NEF14 Meeting of  
The American Physical Society

**Classical-Quantum correspondence in a 2d universe with and without a scalar field** DHRUV PATEL, Wentworth Institute of Technology — In this talk I will briefly describe what 2d quantum gravity is and what makes it interesting. I will then show a reasonable correspondence between classical and quantum probability distributions for the circumference of the model 2d universe described by a Lagrangian with just a gravitational part. Then I will go on to how I introduced a homogeneous scalar field in the universe and its role as an internal clock. I then utilized this internal clock to analyze the different possible evolutions of the model 2d universe.

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Date submitted: 09 Oct 2014

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