1061-35-92 **Dean Baskin*** (dbaskin@math.stanford.edu), Stanford University, Department of Mathematics, Building 380, Sloan Hall, Stanford, CA 94305. *The Klein-Gordon equation on asymptotically de Sitter spaces.*

Asymptotically de Sitter spaces are Lorentzian manifolds that resemble the de Sitter space near infinity and are asymptotic solutions of the Einstein equations with positive cosmological constant. We construct the forward fundamental solution for the wave and Klein-Gordon equations on these manifolds and describe qualitative and quantitative properties of solutions. (Received April 08, 2010)