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Rachel Lash Maitra* (maitrar@wit.edu), 550 Huntington Ave, Boston, MA 02015, and **John E Haga** (hagaj@wit.edu), 550 Huntington Ave, Boston, MA 02015. *Time-Sliced Path-Integral Propagator for (1+1) Quantum Gravity with Factor Ordering Ambiguity*. Preliminary report.

We obtain a path integral representation of the time evolution operator in a model of (1+1) quantum gravity, that incorporates factor ordering ambiguity, as an extension of previous results to factor orderings which generate more sharply singular behavior near the Big Bang / Big Crunch singularity. In obtaining a suitable integral kernel for the time-evolution operator, one requires that the corresponding Hamiltonian is self-adjoint; the plurality of self-adjoint extensions for a particular category of orderings leads to a variety of behaviors for the quantized system near the singularity. An appropriate reparametrization allows the use of Hankel transforms to derive an explicit time-sliced formula for the propagator. (Received September 17, 2019)