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In developing a rigorous path integral representation of the time evolution operator for a model of (1+1) quantum gravity that incorporates factor ordering ambiguity we show that the kinetic part of the Hamiltonian generates a Bessel process with index depending on the factor ordering. We observe that the Laplace-Beltrami ordering arises when the corresponding Bessel path integrals appear as the radial path integrals of 3-dimensional Wiener path integral. (Received September 17, 2019)