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**Peng Lu\*** (penglu@uoregon.edu), Department of Mathematics, University of Oregon, Eugene, OR 97405. *Convergence of fundamental solutions of linear parabolic equations under Cheeger-Gromov convergence.*

In this talk we show the convergence of the fundamental solutions of the parabolic equations assuming the Cheeger-Gromov convergence of the underlying manifolds and the uniform  $L^1$ -bound of the solutions. We also prove a local integral estimate of fundamental solutions. (Received June 16, 2011)