1099-60-246   **Davar Khoshnevisan*** (`davar@math.utah.edu`), Department of Mathematics, University of Utah, Salt Lake City, UT 84112, and **Mohammud Foondun** and **Pejman Mahboubi**. *Analysis of the gradient of the solution to a stochastic heat equation via fractional Brownian motion.* Preliminary report.

We present an analysis of approximate gradients of solutions to various nonlinear stochastic heat equations. Included are a few applications to the local behavior of the solutions to the parabolic Anderson model and the KPZ equation.

This is joint work with M. Foondun and P. Mahboubi. (Received February 10, 2014)

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