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Le Chen, Yaozhong Hu, Kamran Kalbasi and David Nualart* (nualart@ku.edu),
University of Kansas, Department of Mathematics, Lawrence, KS 66047. *Stochastic heat equation
driven by a rough time-fractional noise.*

In this talk we present some recent results on the stochastic heat equation on \mathbb{R}^d driven by a Gaussian noise which is a fractional Brownian motion in the time variable with Hurst parameter $H \in (0, 1/2)$. We derive a Feynman-Kac formula for the solution and we use this representation to establish matching lower and upper bounds for the $L^p(\Omega)$ moments of the solution that lead to intermittency properties. (Received February 09, 2016)