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**Xia Chen\*** ([xchen@math.utk.edu](mailto:xchen@math.utk.edu)), Department of Mathematics, University of Tennessee, Knoxville, TN 37996. *Large deviations for local and intersection local times of fractional Brownian motions*. Preliminary report.

It is well known that the local and intersection local times of Gaussian process can be constructed by a method known as local non-determinism. In this talk, I will show how this method can be used to establish the large deviations for the local and intersection local times of fractional Brownian motions. In addition, I will post some related conjectures and remaining problems. Part of the talk is based on some on-going projects with Khoshnevisan, Rosinski, Wu, Xiao and Shao. (Received June 15, 2008)