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Simultaneous Confidence Band for Sparse Longitudinal Regression Curve

Recently functional data analysis has received considerable attention in statistics research and a number of successful applications have been reported, but there has been no results on the inference of the global shape of the mean regression curve. In this paper, asymptotically simultaneous confidence band is obtained for the mean trajectory curve based on sparse longitudinal data, using piecewise constant spline estimation. Simulation experiments corroborate the asymptotic theory.

**Friday, October 9, 2009 at
11:30 am in B760 EH**

**Coffee and Cookies will be
served at 11:15 am in the
Statistics Lounge, 450 West Hall**