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Tomoyuki Ichiba* (ichiba@pstat.ucsb.edu), South Hall 5508 Department of Statistics and, Applied Probability, University of California, Santa Barbara, CA 93106. *Behaviors of interbank lending system near multiple defaults.*

We shall model empirical distributions of large interbank-lending system by interacting diffusion processes. When the interactions are of mean-field type and the average of the system is close to the level of default, multiple defaults can occur with positive probability in a finite time. We are concerned with the behaviors of the large system near the time of multiple defaults, and propose financial health indicators for the system. (Received January 27, 2014)