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Joseph Max Rosenblatt* (joserose@iupui.edu), Department of Mathematical Sciences, 402 N. Blackford, IUPUI, Indianapolis, IN 46202. *Local behavior of convergence for stochastic processes in dynamical systems*. Preliminary report.

Details about the local behavior of maps and functions in ergodic dynamical systems are the focus of this talk. We consider processes that are not universally convergent for all ergodic maps and all integrable functions. In this situation, we describe for a variety of examples how when fixing the map the nature of the function affects the convergence of the process. At the same time, when fixing the function, we can describe how the nature of the map affects the convergence of the process in a variety of examples. These results range from ones that hold generically to ones that hold only rarely. (Received July 04, 2017)