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Jessica Lin* (jessica.lin@mcgill.ca) and **Andrej Zlatoš**. *Stochastic Homogenization for Reaction-Diffusion Equations*.

I will present several results concerning stochastic homogenization for reaction-diffusion equations. We consider heterogeneous reaction-diffusion equations with random nonlinear reaction terms. Under certain hypotheses on the environment, we show that the typical large-time, large-scale behavior of solutions is governed by a deterministic front propagation. The front propagation may be identified by a first-order nonlinear free boundary problem. This talk is based on joint work with Andrej Zlatoš. (Received February 02, 2018)