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**Sean D. Lawley\*** (lawley@math.utah.edu). *Randomly switching PDEs and SDEs.*

Motivated by diverse applications to biochemistry and physiology, we consider PDEs and SDEs with randomly switching boundary conditions. In this talk, I will describe the tools for analyzing these systems and highlight the surprising behavior that they can exhibit. Special attention will be given to establishing mathematical connections between these classes of stochastic processes. (Received September 22, 2015)