

1124-60-417

Jonathan C Mattingly*, physics building, science drive, Durham, NC 27701. *Analysis for some numerical methods for sampling stochastic systems both in and out of equilibrium.*

I will describe some methods more more efficiently sampling stochastic systems. I will include the analysis of some stratified sampling which which allow one to sample some regions of interest more and in a parallelizable fashion. I may also discuss some higher order methods and approximate sampling methods which improve efficiency. (Received September 14, 2016)