Analysis of Markov chain Monte Carlo method with heavy-tailed target distributions Prof. Dr. Kengo Kamatani (Osaka University, Japan)

February 27, 2019

In this talk, we will discuss Markov chain Monte Carlo (MCMC) methods with heavy-tailed invariant probability distributions. When the invariant distribution is heavy-tailed the algorithm has difficulty reaching the tail area. We will study the effect by using the high-dimension scaling limit. We also study ergodic properties of some MCMC methods with heavy-tailed invariant distributions.