

CONVERGENCE OF DISCRETE MARKOV CHAINS TO JUMP PROCESSES

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In this talk, we will discuss general criteria on tightness and weak convergence of discrete Markov chains to symmetric jump processes on metric measure spaces under mild conditions. As an application, we investigate convergence of Markov chains with random conductances to symmetric jump processes. This is a on-going join work with Z.Q. Chen (Seattle) and P. Kim (Seoul).