

QUASI-STATIONARY DISTRIBUTIONS FOR ONE-DIMENSIONAL MINIMAL DIFFUSION PROCESSES

Bo-Rui QI *Beijing Normal University, China*, E-mail: qiborui@mail.bnu.edu.cn

Abstract: We prove that there exists a unique quasi-stationary distribution (QSD) for the minimal diffusion process with 0 entrance boundary and infinity exit/regular boundary. We also prove the unique QSD attracts all the initial distributions and obtain a spectral representation for the QSD.