

1053-60-53

Michael A Kouritzin* (mkouritz@math.ualberta.ca), Mathematical and Statistical Sciences, University of Alberta, Edmonton, Alberta , Canada, and **Douglas Blount**. *On separation, tightness and weak convergence of cadlag processes.*

We will discuss the use of homeomorphic methods to separate, establish tightness of and prove weak convergence for probability measures on completely regular topological spaces. In the process, we will extend and generalize classical results in masterful texts, like Billingsley (1999) and Ethier and Kurtz (1986). Moreover, motivated by the work of Bhatt and Karandikar (1993), we will also discuss an alternative external method for establishing weak convergence that imbeds processes into a larger compact space instead of restricting them to a smaller space like compact containment does. (Received July 28, 2009)