

962-60-1178

Olav H Kallenberg* (olavk@auburn.edu), Department of Mathematics, Auburn University, 218 Parker Hall, Auburn, AL 36849-5310. *Inversion formulas and ergodic properties of general spacing measures.*

Kaplan (1955) established a 1-1 relationship between stationary point processes on the real line and stationary sequences of random variables. The correspondence becomes symmetric when extended to general random measures. Using ergodic theory, we obtain some simple and useful formulas connecting the two measures. As a simple application, we consider the local time of a regenerative set and its generating subordinator. (Received October 02, 2000)