1 Spatial Ergoticity

Can spatial DGP's be ergotic in location given a valid measure space?

Let us denote a spatial plane by the real line. Then there is a mapping from the spatial plane by a data generating process, let us denote it;

$F : R \to R$

Then "Spatial Ergoticity" implies that an individual observed data point $y_i, i \in R$ is represented by some closed interval on R, denoted C_i. Thus, we can find some $j \in R$ such that $j \notin C_i$

Thus, we can find (given that we have a single dimensional space), a M and N such that

$E(y_i|y_j, y_k) = 0 \forall j > M, k < K$