P_x ... dist. conditional on $x \in \mathrm{supp}\,\Phi$

$\nearrow$ $P_x^!$ ... −11− without x

2. Based on the interpretation of the Palm distribution determine the Palm distribution and the reduced Palm distribution of a binomial point process.

$\hookrightarrow Bi(B, n, \nu) \sim \Phi_n \qquad B \in \mathcal{B}_0$

$P_x^!$ corresponds to $\Phi_{n-1} \sim Bi(B, n-1, \nu)$

P_x .... $\Phi_{n-1} + \delta_x$

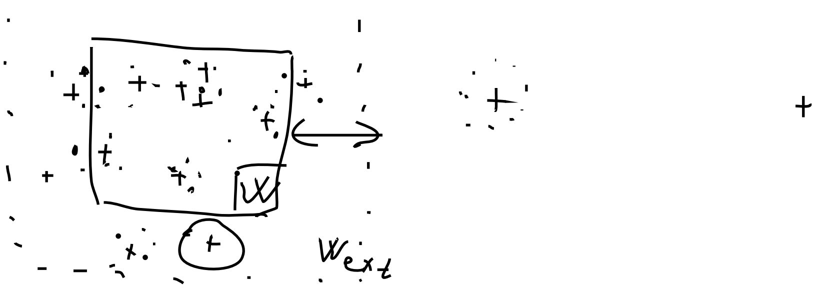
Poisson process $\Phi \sim \Pi$, $P_x^! = \Pi$ (Slivnyak)

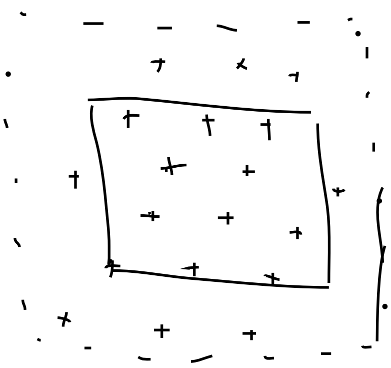
$P_x = \Pi * \delta_x$

how to simulate realization of homogeneous Poisson point process? $\Lambda(B) = \lambda \cdot |B|$, $\lambda > 0$, $B \in \mathcal{B}(\mathbb{R}^d)$

W compact $\Rightarrow \Phi(W) \sim Po(\overset{\Lambda(W)}{\lambda |W|}) \Rightarrow$ place n Po
in W in iid
way.

Recall: $\left(\underset{\overset{\uparrow}{\text{Poisson}}}{\Phi|_W} \,\middle|\, \Phi(W) = n \right) \sim Bi(W, n, \Lambda)$





MCMC