## Modeling Point Patterns using NHPPs

Statistical modeling depends on a sampling model for the data and the associated likelihood function.
Conditional on the number of points, $Num(D) = n$ , the location density can be specified as:
Then considering the location and number of points simultaneously, we have
Alternatively, consider a fine partition for $D$ , then using the Poisson assumption, the likelihood is the produc
of the counts across the partitions.



