

## Chapter 10 Question 1

• observations:

- bursting activity as seen in the autocorrelation around 3-7 msec ( $\sim 300$  Hz)
- periodic activity as seen in the autocorrelation around 120 msec ( $\sim 8$  Hz)

• proposed model

$$\lambda(t) = e^{\beta_0 + \sum_{j=1}^J \beta_j \Delta N_{t+j} + \sum_{k=120}^K \beta_k \Delta N_{t-k}}$$

where  $J = 3:7$  milliseconds

$K = 120:140$  milliseconds