## **Slides Handout**

## Color Scheme

• Orange: times

• Violet: before infection probabilities

• Blue: infection rates

• Purple: removal rates

## Glossary

 $\bullet$  N total individuals and n infected individuals

 $\bullet$   $r_j$  and  $i_j$  are removal and infection times for j

•  $\beta_{kj}$  is infection rate k applies to j

-  $B_j := \sum_{k=n+1}^N eta_{jk}$  is sum of rates j applies to never-infecteds

•  $\theta_j$  parameterizes infectious period  $r_j - i_j \sim P_{\theta_j}$ 

 $-\theta_i = (m_i, \gamma_i)$  for Erlang periods

 $-\delta_j := \gamma_j + B_j$  is new rate after change of variable

•  $\tau_{kj}$  is time k applies pressure to j

 $-\omega_{jk} = \tau_{jk} + \tau_{kj}$  is joint time

-  $W=\sum_{j=2}^{n}\sum_{k\neq j}^{n} \tau_{kj}$  is cumulative time infective pressure is exerted

•  $\psi_j$  is  $P(j \text{ evades infection until time } i_j)$ 

 $-\psi_{jk}$  is  $P(j \text{ evades infection from } k \text{ until time } i_j)$ 

•  $\chi_j$  is infective pressure on j at  $i_j$ 

•  $\phi_j$  is P(j fails to infect the N-n never-infecteds)