

$$P(\underline{t}_n, \underline{J}_n)$$

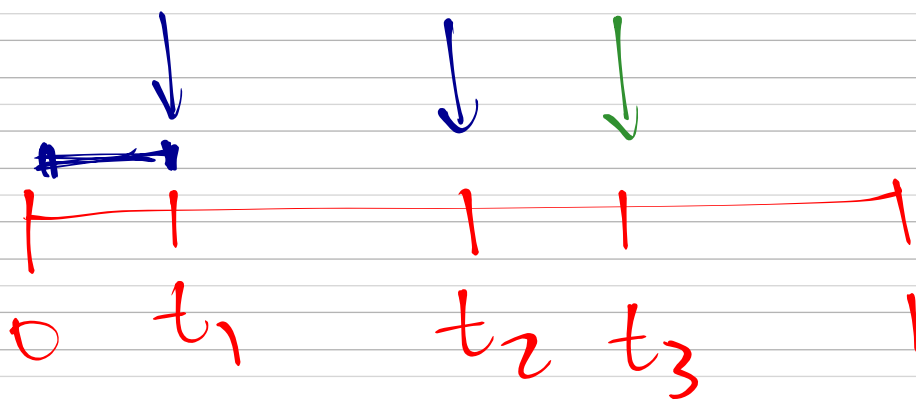
$$T = \begin{cases} \lambda(t_1)^{1-J_1} e^{-\lambda(t_1)[t_1-t_0]} \\ \mu(t_1)^{J_1} e^{-\mu(t_1)[t_1-t_0]} \end{cases}^x$$

hence

$$T = \begin{cases} \lambda(t_1) e^{-\lambda(t_1)[t_1-t_0]} \end{cases}, \text{ if } J_1 = 0$$

$$t = \begin{bmatrix} t_1 \\ t_2 \\ t_3 \\ t_4 \\ t_5 \end{bmatrix}$$

$$J = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{bmatrix}$$



$t_1^\lambda$

$t_2^\lambda$

$t_3^\mu$

home

$$\left[ \begin{array}{l} \lambda(t_1) e^{-\lambda(t_1)[t_1-t_0]} \\ \mu(t_1) e^{-\mu(t_1)[t_1-t_0]} \end{array} \right] \begin{array}{l} \text{if } J_1 = 0 \\ \text{if } J_1 = 1 \end{array}$$

$$\hookrightarrow \left[ \lambda e^{-\lambda(t_1-t_0)} \right]^{1-J_1} \left[ \mu e^{-\mu(t_1-t_0)} \right]^{J_1}$$

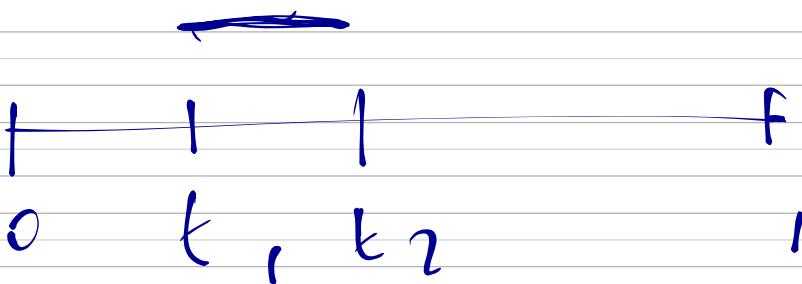
$$\exp\{-\Delta\} \exp\{-Y\}$$

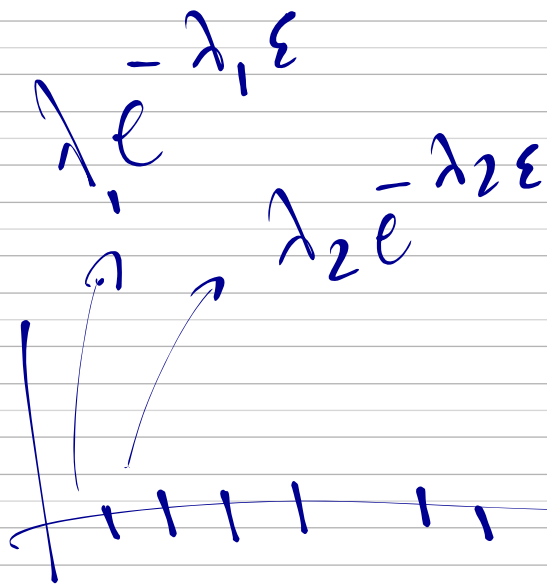
$$\exp\left\{-\int_{t_1}^{t_2} \lambda(t) + \mu(t) dt\right\} x$$

$$\left[\lambda_{t_2 t_1} + \mu_{t_2 t_1}\right] = P(t) \quad \checkmark$$

$$\boxed{P(J|t)} = \frac{\lambda}{\lambda + \mu} \quad (\text{Poi dist.})$$

$$P(J, t) = P(t) P(J|t)$$





$$\prod_{i=1}^{\infty} \lambda_i e^{-\lambda_i \epsilon} = \lambda_i \cdot e^{-\epsilon \sum \lambda_i}$$

$$\prod e^{-\lambda \epsilon} =$$

$$P(T > s) = e^{-\int_0^s \lambda(t) dt}$$

$$F(s) = 1 - e^{-\int_0^s \lambda(t) dt}$$

$$f(s) = \frac{d}{ds} F(s) = \lambda(s) e^{-\int_0^s \lambda(t) dt}$$