















$$R_0 \equiv \frac{\beta S}{\gamma}$$

SPIN + IN + IN = IN

$$\frac{dS(t)}{dt} + \frac{dI(t)}{dt} + \frac{dR(t)}{dt} = 0$$

$$\frac{dS(t)}{dt} = -\beta(t)S(t)I(t)$$

$$\frac{dI(t)}{dt} = \beta(t)S(t)I(t) - \gamma(t)I(t)$$

$$\frac{dR(t)}{dt} = \gamma(t)I(t)$$

$$\frac{dI(t)}{dt} + \frac{dS(t)}{dt} + \frac{dR(t)}{dt} = 0$$

$$df(t)$$

$$dt$$

$$\approx$$

$$\Delta f$$

$$\Delta t$$



PLEASE READ

W E B DUBOIS



$$\gamma \approx \frac{\Delta R}{I}$$

$$\theta \approx - \frac{\Delta S}{SI}$$

$$R_0 \equiv \frac{\beta S}{\gamma} \approx - \frac{\Delta S}{\Delta R} = \frac{\Delta R + \Delta I}{\Delta R}$$

$$R_0 \approx \frac{\Delta R + \Delta I}{\Delta R}$$

