

$$\begin{pmatrix} X_1 = S \\ X_2 = S \\ X_3 = S \\ X_4 = I \end{pmatrix}$$

$$\begin{pmatrix} X_1 = S \\ X_2 = S \\ X_3 = I \\ X_4 = R \end{pmatrix}$$

$$\begin{pmatrix} X_1 = S \\ X_2 = R \\ X_3 = R \\ X_4 = R \end{pmatrix}$$

Recovered

Infected

Susceptible

Time

