

$$\begin{aligned}\frac{d\bar{n}^\alpha}{dt} &= r - a\underline{n}^\alpha - \beta\underline{n}^\alpha \underline{v}^\alpha && \mathfrak{I})(\\ \frac{d\bar{i}^\alpha}{dt} &= \beta\bar{n}^\alpha \bar{v}^\alpha - b\underline{i}^\alpha \\ \frac{d\bar{v}^\alpha}{dt} &= k\bar{i}^\alpha - s\underline{v}^\alpha\end{aligned}$$

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