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1 Insert A head here

This demo file is intended to serve as a "starter file" for OUP journals produced under LaTeX using oupau.cls.

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2 Equations

Sample equations.

$$\begin{aligned}\frac{\partial u(t,x)}{\partial t} &= Au(t,x)\left(1-\frac{u(t,x)}{K}\right) - B\frac{u(t-\tau,x)w(t,x)}{1+Eu(t-\tau,x)},\\ \frac{\partial w(t,x)}{\partial t} &= \delta\frac{\partial^2 w(t,x)}{\partial x^2} - Cw(t,x) + D\frac{u(t-\tau,x)w(t,x)}{1+Eu(t-\tau,x)},\end{aligned} \tag{1}$$

$$\begin{aligned}\frac{dU}{dt} &= \alpha U(t)(\gamma - U(t)) - \frac{U(t-\tau)W(t)}{1+U(t-\tau)},\\ \frac{dW}{dt} &= -W(t) + \beta\frac{U(t-\tau)W(t)}{1+U(t-\tau)}.\end{aligned} \tag{2}$$

$$\frac{\partial(F_1,F_2)}{\partial(c,\omega)}_{(c_0,\omega_0)} = \left|\begin{array}{cc}\frac{\partial F_1}{\partial c} & \frac{\partial F_1}{\partial \omega}\\ \frac{\partial F_2}{\partial c} & \frac{\partial F_2}{\partial \omega}\end{array}\right|_{(c_0,\omega_0)} = -4c_0q\omega_0 - 4c_0\omega_0p^2 = -4c_0\omega_0(q+p^2) > 0.$$

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3 Enunciations

Theorem 3.1. *Assume that* $\alpha > 0, \gamma > 1, \beta > \frac{\gamma+1}{\gamma-1}$. *Then there exists a small* $\tau_1 > 0$, *such that for* $\tau \in [0, \tau_1)$, *if* c *crosses* $c(\tau)$ *from the direction of to a small amplitude periodic traveling wave solution of (2.1), and the period of* $(\check{u}^p(s), \check{w}^p(s))$ *is*

$$\check{T}(c) = c \cdot \left[\frac{2\pi}{\omega(\tau)} + O(c - c(\tau)) \right].$$

Conjecture 3.1. *From (0.8) and (2.10), it holds* $\frac{d\omega}{d\tau} < 0, \frac{dc}{d\tau} < 0$ *for* $\tau \in [0, \tau_1)$. *This fact yields that the system (2.1) with delay* $\tau > 0$ *has the periodic traveling waves for smaller wave speed* c *than that the system (2.1) with* $\tau = 0$ *does. That is, the delay perturbation stimulates an early occurrence of the traveling waves.*

4 Figures & Tables

The output for figure is:

Figure 1: Insert figure caption here

An example of a double column floating figure using two subfigures. (The subfig.sty package must be loaded for this to work.) The subfigure `\label` commands are set within each subfloat command, the `\label` for the overall figure must come after `\caption`. `\hfil` must be used as a separator to get equal spacing. The subfigure.sty package works much the same way, except `\subfigure` is used instead of `\subfloat`.

The output for table is:

Table 1: An Example of a Table

One	Two
Three	Four

5 Conclusion

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Acknowledgment

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References

[1] Reference details . . .

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