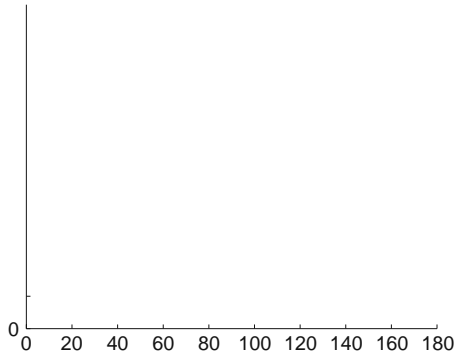


$\begin{pmatrix} t & t & r \\ t & t & r \\ r & r & t \end{pmatrix} = \begin{pmatrix} t & t & r \\ t & t & r \\ r & r & t \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$

$$f, u = H, u - = / \cdot u \cdot - \cdot \cdot \cdot \quad (.)$$

$\begin{pmatrix} r & r & t \\ r & r & t \\ t & t & r \end{pmatrix} = \begin{pmatrix} r & r & t \\ r & r & t \\ t & t & r \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$

$$\left(\begin{array}{c} \mathbf{u} \\ \mathbf{v} \end{array} \right) + \left(\begin{array}{c} \mathbf{r} \\ \mathbf{f} \end{array} \right) = \left(\begin{array}{c} \mathbf{t} \\ \mathbf{t} \end{array} \right) \quad (1)$$



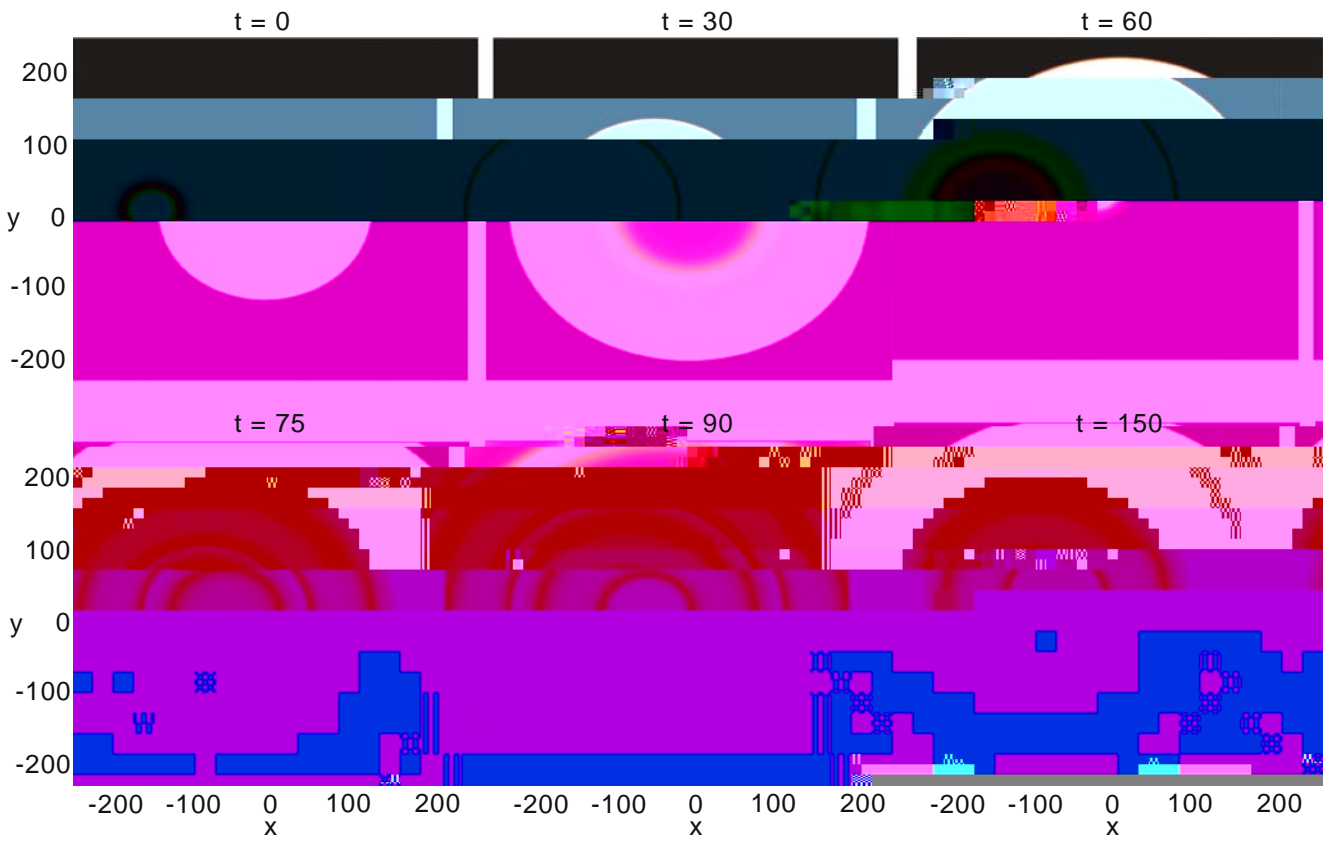


Fig. 7 Snapshots of the evolution of the system at times $t = 0, 30, 60, 75, 90, 150$. The vertical axis is labeled y and the horizontal axis is labeled x . The snapshots show the evolution of a wave-like pattern over time.

The snapshots show the evolution of a wave-like pattern over time. The vertical axis is labeled y and the horizontal axis is labeled x . The snapshots show the evolution of a wave-like pattern over time.

At $t = 0$, the system is in a state where the wave-like pattern is just beginning to form. As time progresses, the pattern becomes more complex and multi-colored. The snapshots show the evolution of a wave-like pattern over time.

The snapshots show the evolution of a wave-like pattern over time. The vertical axis is labeled y and the horizontal axis is labeled x . The snapshots show the evolution of a wave-like pattern over time.

$$L_h \frac{u_{ij}^{k+} - u_{ij}^k}{t} + u_{ij}^{k+} = M q_{ij} f, u_{ij} \quad (.1)$$

$$L_h \frac{q_{ij}^{k+} - q_{ij}^k}{t} = - q_{ij} f, u_{ij} \quad (.)$$

$i = 1, \dots, N_x, j = 1, \dots, N_y, L_h \neq t$
 $u_{ij} = q_{ij} f, u_{ij} \quad (.1),$
 $u_{ij} = q_{ij} f, u_{ij} \quad (.1),$

9.7(57(y)Tj/F1 1 Tf 10 0 0 p0 n-0 6.9999 202.083 597.0.)T.m3e64 597.sl 202.08310609.5(the)-209(linear)m 0 Tc3line75c

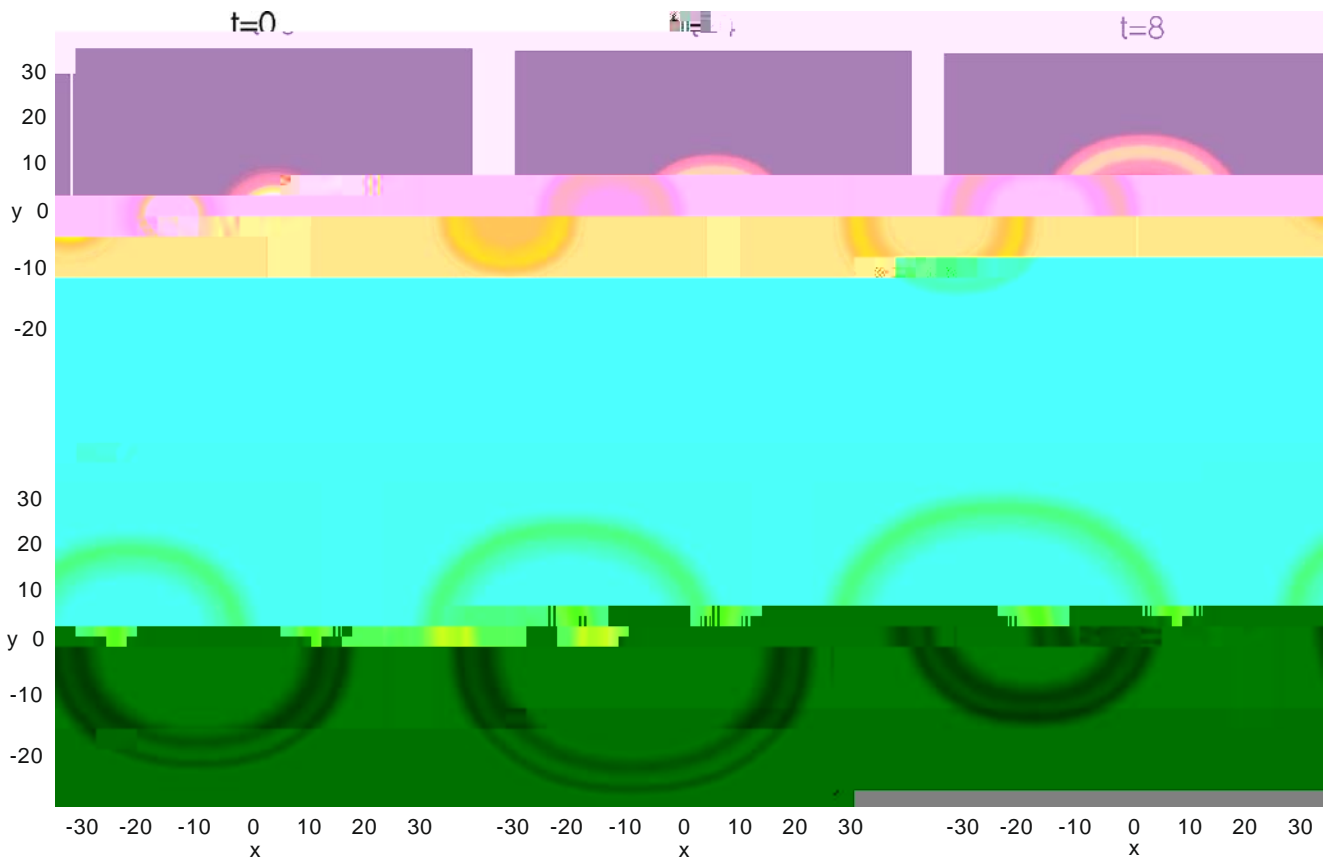


Fig. 13 S_i $r_{i,j}$ $t_{i,j}$ $u(x,y)$

... t t ... t r ... (.1) ...
 r r tr ... r ... t t ...
 r ... (... r ... 00). T ...
 t t

$$\dots a.r = \dots a \dots J, \dots J, \dots \dots (.1)$$

... r ... t t ... r r tr ... r ...
 J, z ... t ...
 T ... tr t t ... r ... t t ... r ...
 r t ... r t ... t ...
 t ... r ...
 t ... (.), ... r r tr ... r (.).
 T ... t r (.1) ... t ...
 t t t t (.) t (.1), t t r = a, ... t ...
 t t

$$a \dots \frac{a}{s} J, \dots J, \dots \dots = \frac{a}{s} I, sa K, sa .$$

... r I ... t ... t ... t ...
 T ... t ... t ... r ... t ... t ... r ...
 r ... a ...

$$\dots + J \dots = \dots a . (.1)$$

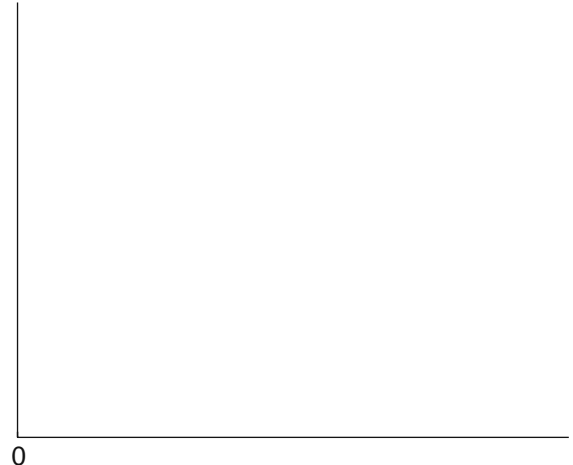
t

$$\dots a \dots a . a$$

$$= - a I, a K, a - \frac{a}{s} I, a K, a , (.1)$$

... t ... t ... r ... a ... r ...
 tr ... t ... r1 . N ... r ... t ...
 t ... r ... t ... r ... r r t ...
 t ... t r ... t ...
 t ... (... t ... 00)

... r ... t ... t ... r ... tr ... t r ...
 t ... t ... r ... t ... t ...
 t ... t r ... t ... r ...
 r ... tr ... 001 ... r ... 00 ...
 t ... 00), ... r ... r ... t ... r ...
 t ... r ... r ... t ...
 r ... 00), ... r ... r ... t ...
 t ... t r ... r ... r t r ... t ...
 r ... t t r ... t ... t ...
 t sign ... r t r ... t ...
 = < + J ... t ...
 T ... t ... t ... r ... t ... r ...



$$\begin{aligned}
 & \text{... (1 10) ...} \\
 & \text{... (0.1 1) ...} \\
 & \text{... (00) ...}
 \end{aligned}$$

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