DP & DDE
directed parabola delay diff eqs.
Domany-Kinzel model (Taye Hinrichsen)

\[ P_1 \]  \[ P_2 \]
\[ \text{active} \]
\[ \text{inactive} \]

\[ \text{line} \]
\[ \text{w. prob } P_1 \]
\[ \text{w. prob } P_2 \]
delayed maps

\[ x_{n+1} = f(x_{n-2}, x_{n+1-2}) \]

\[ x_n = \text{Sign}(x_n) \]

\[ x_{n+1} = f(x_{n-3}, x_{n-1-2}) \]

\[ f(x_+) \]

\[ f(x_-) \]

DDE

\[ \dot{x}(t) = f(x(t)) + g(x(t-t)) \cdot \xi(t-a) \]

\[ x_{n+1} = x_n + x_{n-2} \]

\[ \dot{\varphi} = 1 + \sum \sin(\varphi_n \psi_n) A_{\nu_m} \]