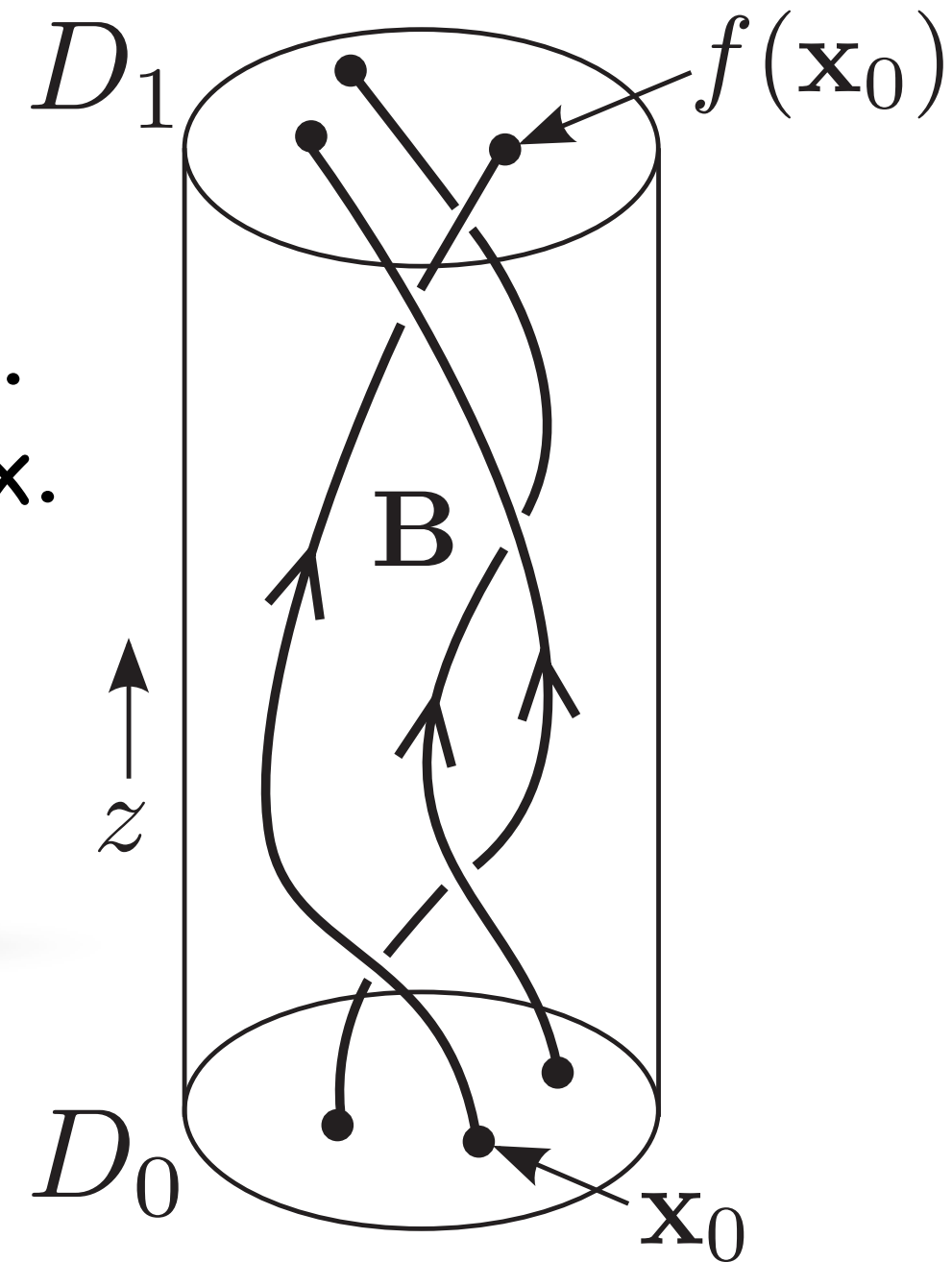


Fix-point

First we need a self-mapping $f(\bullet)$.
A fix-point is defined that $f(x) = x$.

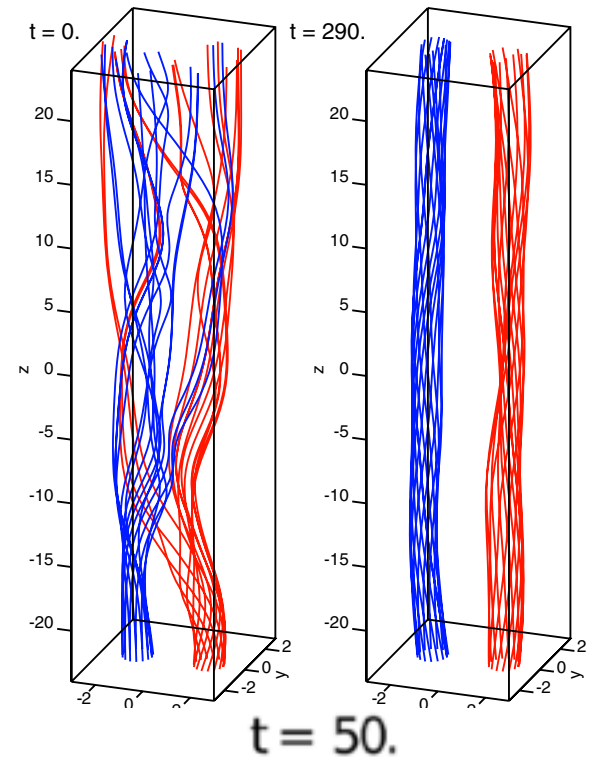
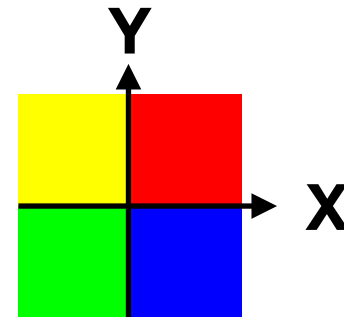
Using the magnetic braid
simulation, the self-mapping
can be defined as



Visualization of the Fix-point

If define a vector $\mathbf{v}_f = \mathbf{f}(\mathbf{x}) - \mathbf{x}$

$$\left\{ \begin{array}{ll} v_f^x > 0 \ \& \ v_f^y > 0 & \text{red,} \\ v_f^x < 0 \ \& \ v_f^y > 0 & \text{yellow,} \\ v_f^x < 0 \ \& \ v_f^y < 0 & \text{green,} \\ v_f^x > 0 \ \& \ v_f^y < 0 & \text{blue.} \end{array} \right.$$



Yeates & Hornig (2011)

t = 0.

t = 35.

t = 50.

