



A diagram of a recurrent neural network unit. It consists of an oval labeled "State". A curved arrow starts from the top of the oval and points back to the top of the oval, representing a recurrent connection.

$$f(\mathbf{x}) = \begin{bmatrix} x_0 \\ x_1 \\ x_2 \end{bmatrix} + \tau \begin{bmatrix} -\sigma & \sigma & 0 \\ \rho & -1 & x_0 \\ x_1 & 0 & -\beta \end{bmatrix} \cdot \begin{bmatrix} x_0 \\ x_1 \\ x_2 \end{bmatrix}$$

2000 LIF neurons, 3D