

Two neuron system

$$\begin{aligned}\dot{v}_1 &= -5v_1 + w_{11} \tan^{-1}(v_1) + w_{12} \tan^{-1}(v_2) \\ \dot{v}_2 &= -v_2 + w_{21} \tan^{-1}(v_1) + w_{22} \tan^{-1}(v_2)\end{aligned}$$

