

Two neuron system

$$\dot{v}_1 = -5v_1 + w_{11} \tan^{-1}(v_1) + w_{12} \tan^{-1}(v_2)$$

$$\dot{v}_2 = -v_2 + w_{21} \tan^{-1}(v_1) + w_{22} \tan^{-1}(v_2)$$

