

Two neuron system: limit cycle trajectories

$$\dot{v}_1 = -5v_1 + 17 \tan^{-1}(v_1) - 25 \tan^{-1}(v_2)$$

$$\dot{v}_2 = -v_2 + 4 \tan^{-1}(v_1) - 5 \tan^{-1}(v_2)$$

