Level sets of the value function
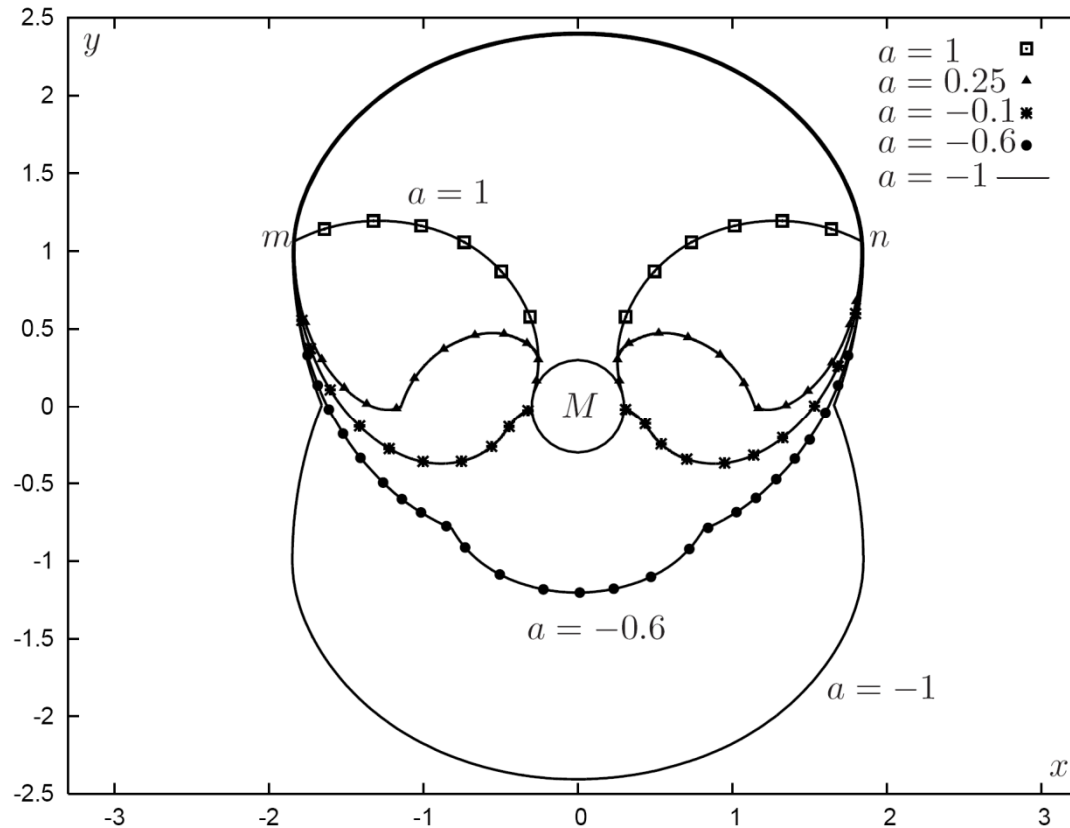# for various values of parameter a

$$\tau = 3$$

$$\dot{x} = -yu + v_x$$
$$\dot{y} = \ xu - w + v_y$$
$$|u| \leqslant 1, \ w \in [a, 1], \ |v| \leqslant 0.3$$