$$\begin{array}{c} p < 0 \\ p = -0.5 \end{array}$$
 stable
$$\begin{array}{c} x_1^{*_1} = 0 \\ x_2^{*_1} = 0 \\ x \in D_{s11} \end{array}$$

$$\begin{array}{c} \mathbf{Unknown} \\ x \in D_u \end{array}$$

$$\begin{array}{c} \mathbf{Unknown} \\ x \in D_u \end{array}$$

$$\begin{array}{c} \mathbf{Unknown} \\ x \in D_u \end{array}$$

$$\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \begin{bmatrix} -px_2 - x_1^3 \\ -x_2^2 - x_1 \end{bmatrix}$$