

$$\dot{x} = Ax + Bu + Cv$$

$$x \in R^m, \quad u \in P \subset R, \quad v \in Q \subset R$$

$$t \in [0, \theta]$$

The target set M is a polyhedron in the space of three chosen coordinates of the phase vector

$$\dot{y} = D(t)u + E(t)v$$

$$D(t) = X_3(\theta, t)B, \quad E(t) = X_3(\theta, t)C$$