

drift

$$\frac{d}{dt}\vec{x} = \vec{h}(\vec{x})$$

speed up
$$\begin{bmatrix} x \\ v \\ \frac{d}{dt}\vec{x} = \frac{d}{dt} \begin{bmatrix} \alpha \\ F_r \end{bmatrix}$$

$$\left. egin{array}{c|c} v & & \\ lpha & & \vec{f}(\vec{x}) \end{array} \right|$$

turn

$$\frac{d}{dt}\vec{x} = \vec{g}(\vec{x})$$