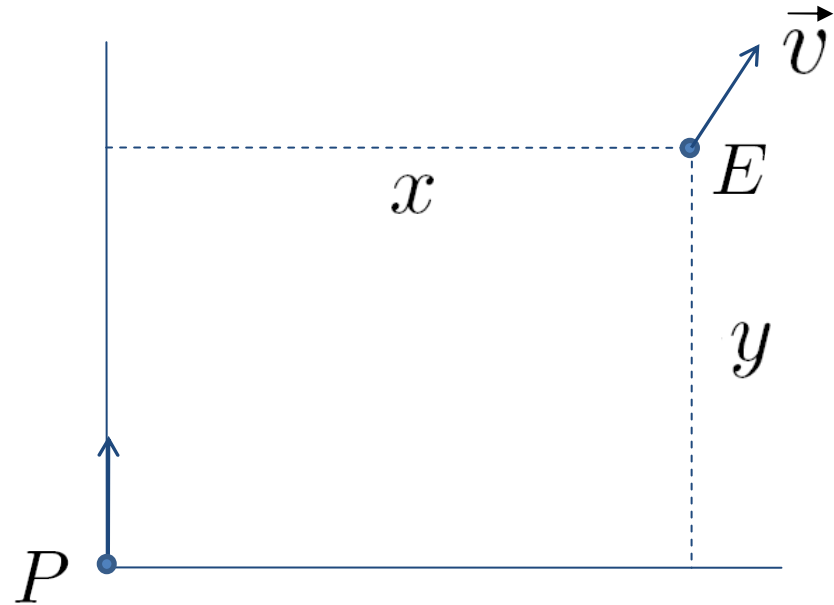
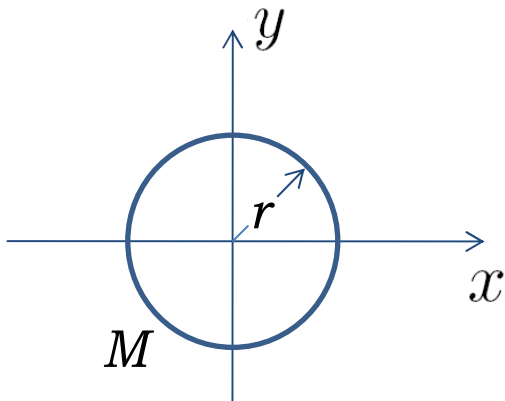


## Dynamics in reduced coordinates

$$\begin{aligned}\dot{x} &= -yu + v_x \\ \dot{y} &= xu + v_y - 1 \\ |u| &\leq 1, \quad |v| \leq \nu\end{aligned}$$

Classical problem



Parameters of the problem

$$\nu, r$$