

$$u_{right,left} = f(v, \omega)$$

$$\Downarrow$$

$$u_{right,left} \stackrel{?}{=} f(\kappa, \dots)$$

$$v = \frac{r_{wheel} \cdot (u_{right} + u_{left})}{2}$$

$$\omega = \frac{r_{wheel} \cdot (u_{right} - u_{left})}{B}$$

$$v = R \cdot \omega$$

$$\kappa = \frac{1}{R}$$

$$\omega \sim \kappa$$

if v constant

$$u_{right} = \frac{b \cdot v}{2 \cdot r_{wheel}} \kappa + \frac{v}{r_{wheel}}$$

$$u_{left} = \frac{-b \cdot v}{2 \cdot r_{wheel}} \kappa + \frac{v}{r_{wheel}}$$