



Physical limits

$$\Lambda_{lim+} = 10 \text{ cm}$$

$$\Lambda_{lim-} = -10 \text{ cm}$$

Hard limits (to unsafe)

$$\Lambda_{h+} = 5 \text{ cm}$$

$$\Lambda_{h-} = -10 \text{ cm}$$

Soft limits (enable safety)

$$\Lambda_{s+} = 4 \text{ cm}$$

$$\Lambda_{s-} = -9 \text{ cm}$$

Slide position

d_0 : slide zero

d_{ref} : slide setpoint

Transition limit

$$\Delta_t = B^{-1}(\epsilon)$$