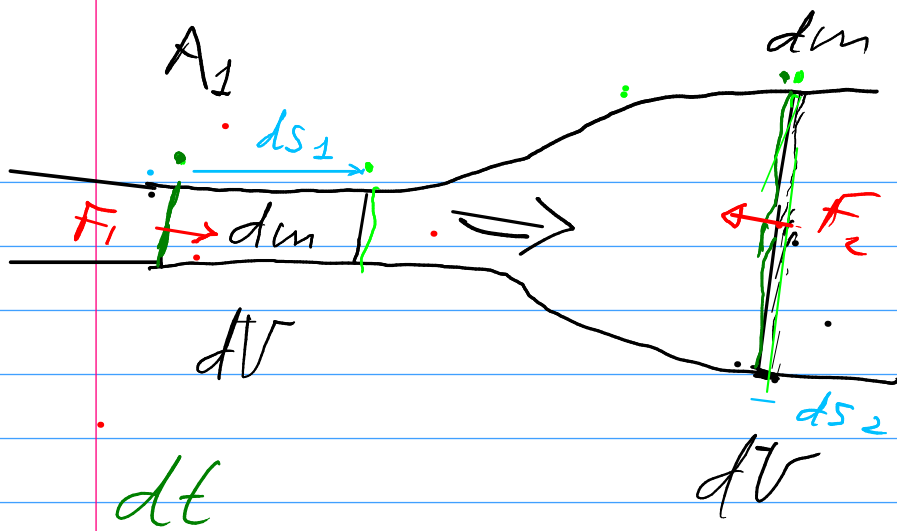


$$\theta = \frac{l}{R} \quad \rightarrow \quad \theta \ll 1$$

$$\theta \ll 0.1$$

$$\theta = \frac{d}{R}$$

$$R = \frac{d}{\theta}$$



$$\rho \Rightarrow \cos \theta$$

$dt$

$$F_1 \cdot ds_1$$

$$-F_2 ds_2$$

$F_1$  e  $F_2$   
in modulus

$$P_1 A_1 \cdot ds_1$$

$$-P_2 \cdot A_2 \cdot ds_2$$

$$P_1 \cdot dV_1$$

$$-P_2 dV_2$$

$$dL^{(P)} = P_1 dV_1 - P_2 dV_2$$

$$d\bar{E}_c = \frac{1}{2} dm v_2^2 - \frac{1}{2} dm v_1^2$$

$$dm = \rho dV$$