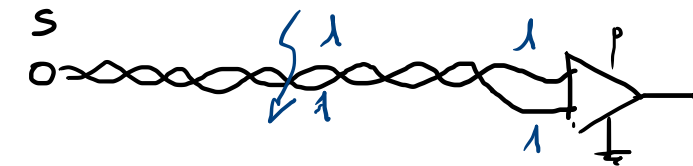
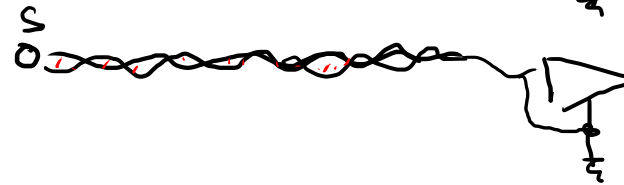
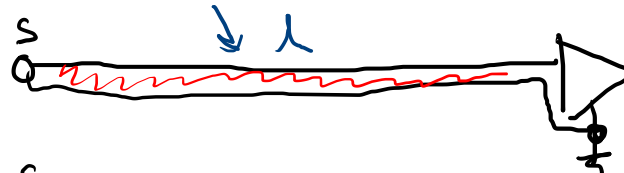
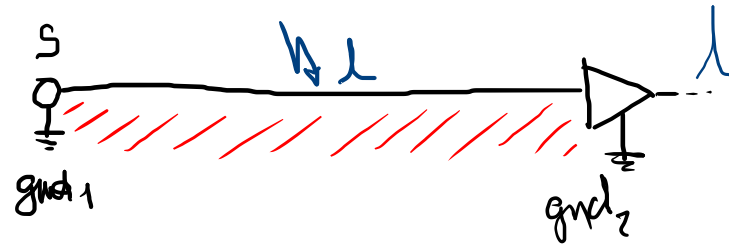


$$V_{O1} = V_{CC} - I_{C1} \cdot R_{C1}$$

$$V_{O2} = V_{CC} - I_{C2} \cdot R_{C2}$$

$$A_{com} \quad CMRR = \frac{A_{diff}}{A_{com}}$$



$$\textcircled{\infty} \quad \overline{\infty}$$

$$g_m = \frac{I_E}{25mV}$$

$$I_E = I_{C1} + I_{C2}$$

$$A_d = R_C \cdot g_m$$

$$V_{out} = R_C \cdot g_m (V_1 - V_2) + A_{com} \left( \frac{V_1 + V_2}{2} \right)$$