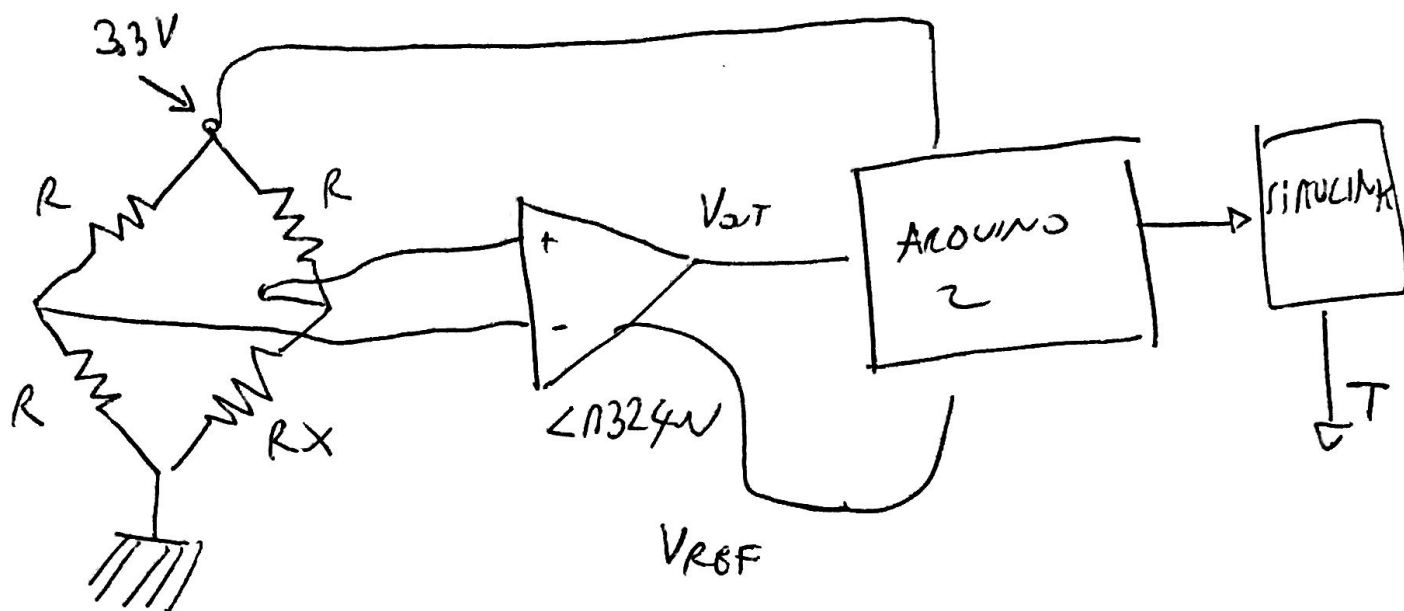


ESERCITAZIONE PRATICA TERMISTORE + CIRCUITO A FONTE

TERMISTORE NTC 3950 $100k\Omega T=25^{\circ}C$ $\beta=3950K$

AMPLIFICATORE DA STRUMENTAZIONE ~~80~~ $\mu A324N$



$$V_{OUT} = A (V^+ - V^-) + V_{REF}$$

$$V_U = \frac{A \epsilon TCR \Delta T}{4} + V_{REF}$$

$$\Delta T = T - T_0 \quad T_0 = 25^{\circ}C$$

$$TCR(25^{\circ}C) = - \frac{\beta}{(273 + 25)^2}$$

$$A=1 \quad (\text{NON COLLEGATO } R_G)$$

$$\Delta T = \frac{(V_U - V_{REF}) \cdot 4}{\epsilon TCR}$$

$$T = 25^{\circ}C + \Delta T$$