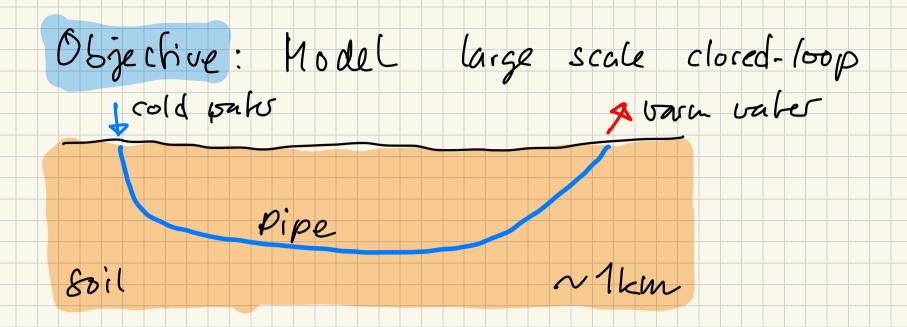
Heat transfer with pipe



Problem to 8hort with

o ZD
o Pipe on boundary

Os, Ou soil and water temp. in K

$$q(x) = h \cdot (\theta_s(x) - \theta_w(x))$$

Heat tourster soil Pipe in W/m

$$\phi_{\iota} = V \cdot A \cdot P \cdot C \cdot Q(x)$$

Or = V. A. P. C. Aw (X+ BX)

Heat flos in W

TODO: Evergy balance, diff. eq., veak form