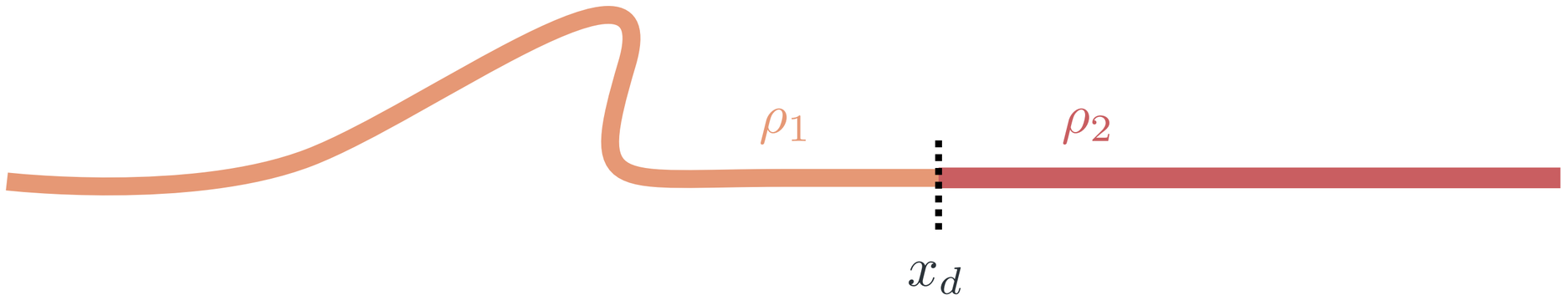
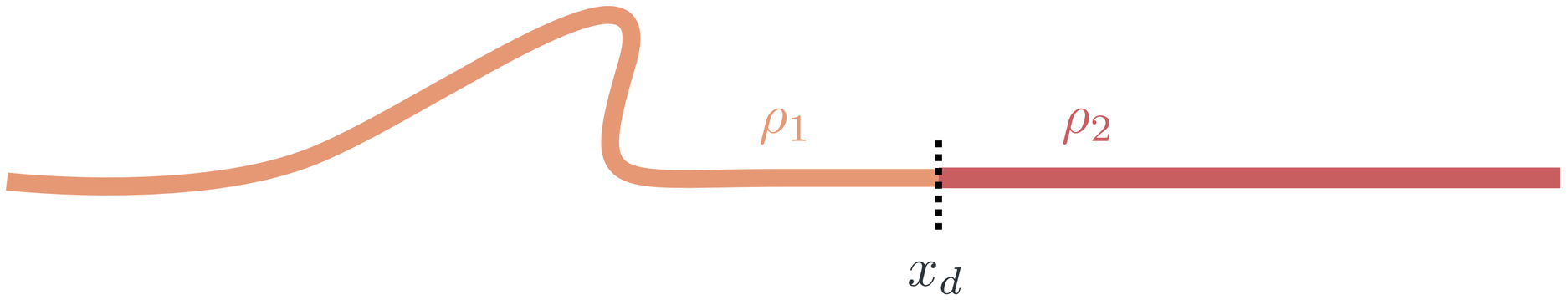
Hola

C.E. de la cuerda

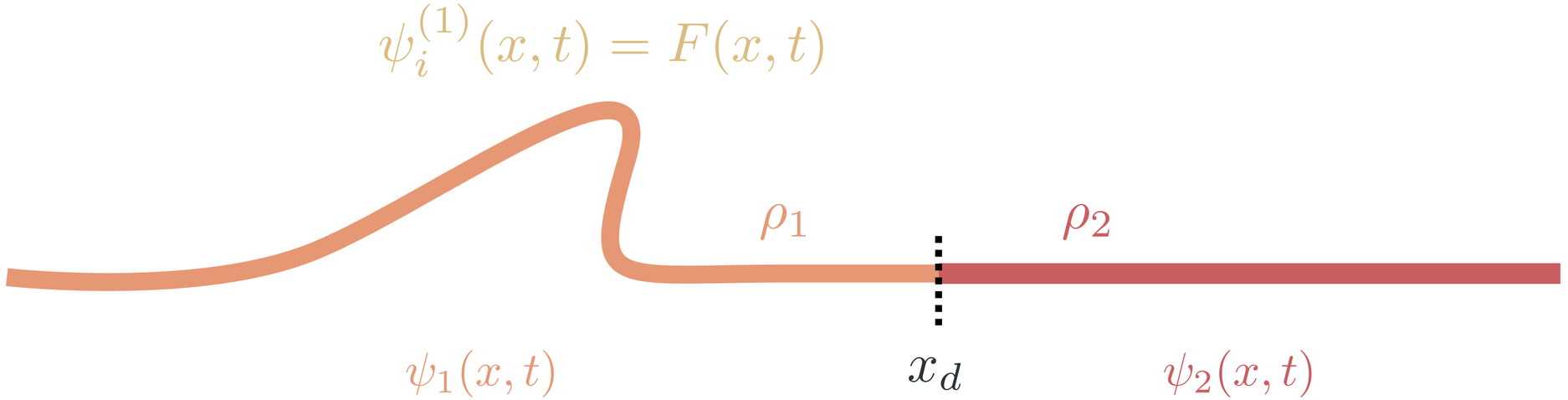


C.E. de la cuerda

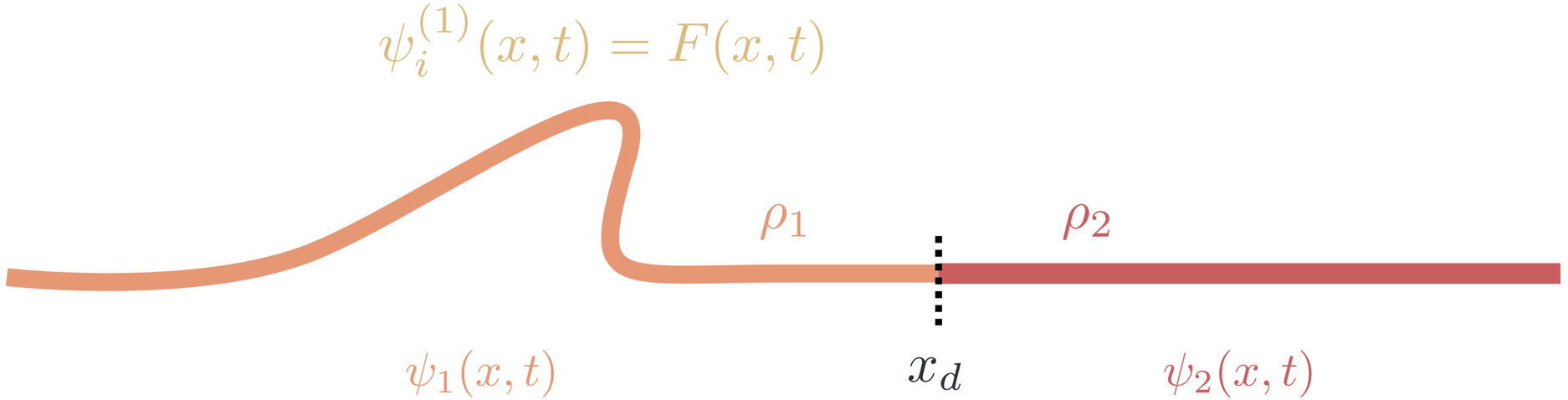
$$\psi_i^{(1)}(x,t) = F(x,t)$$



C.E. de la cuerda



C.E. de la cuerda

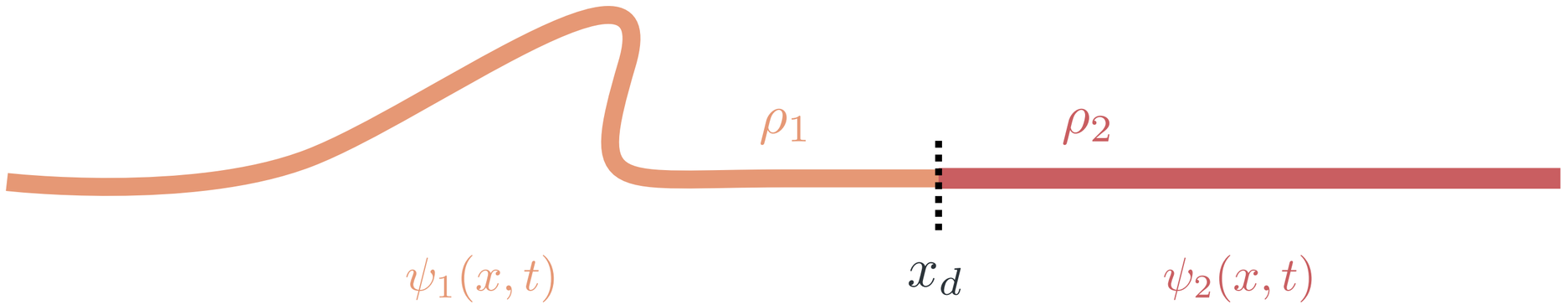


Continuidad de la cuerda: $\psi_1(x_d,t) = \psi_2(x_d,t)$

Continuidad de F_y: $$-T_1 \left.\frac{\partial \psi_1(x,t)}{\partial x}\right|_{x_d} + T_2 \left.\frac{\partial \psi_2(x,t)}{\partial x}\right|_{x_d} = \delta_m\, a$$

C.E. de la cuerda

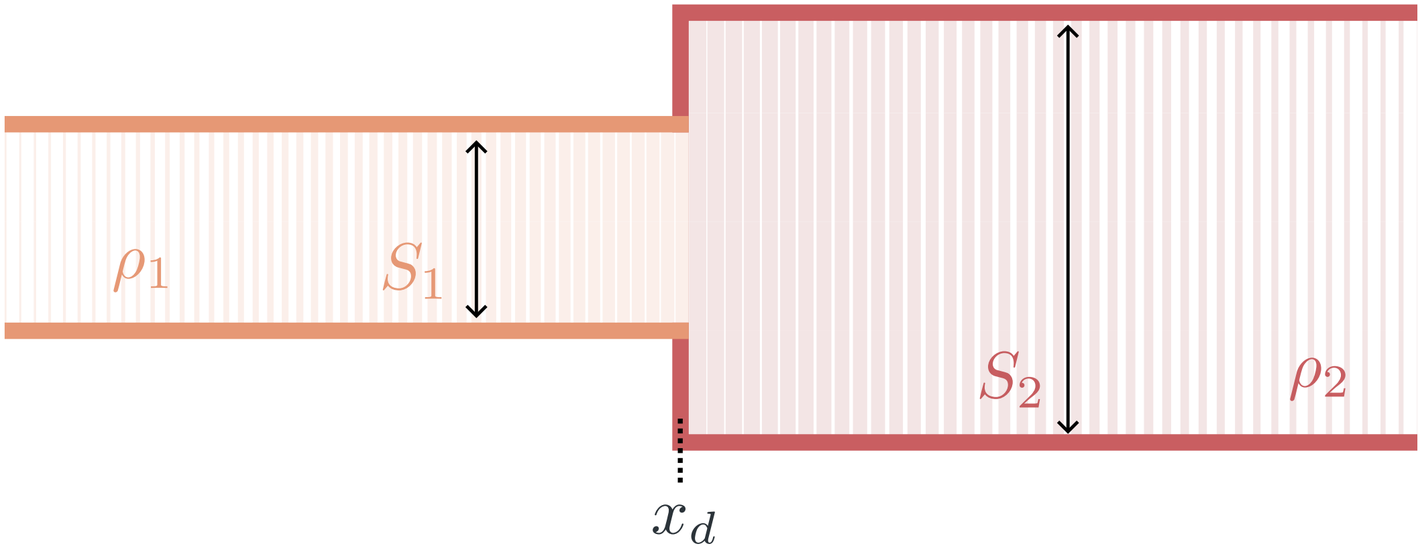
$$\psi_I^{(1)}(x,t) = A_I^{(1)} \cos(\omega t - kx)$$



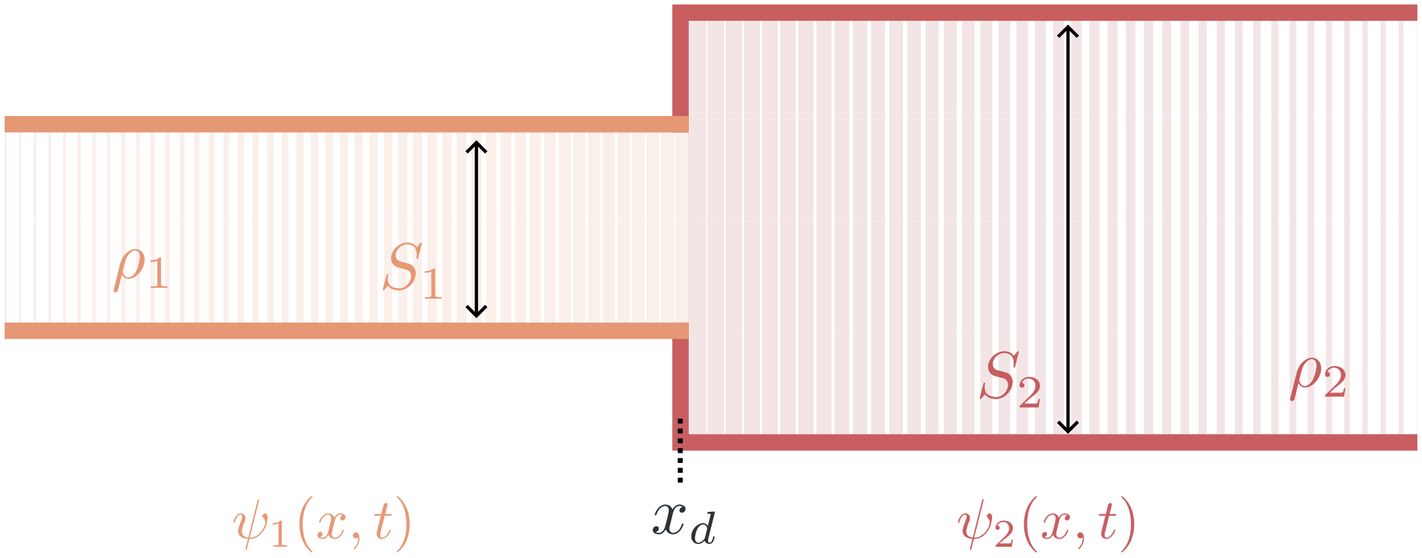
Continuidad de la cuerda: $\psi_1(x_d,t) = \psi_2(x_d,t)$

Continuidad de F_y: $$-T_1 \left.\frac{\partial \psi_1(x,t)}{\partial x}\right|_{x_d} + T_2 \left.\frac{\partial \psi_2(x,t)}{\partial x}\right|_{x_d} = \delta_m \, a$$

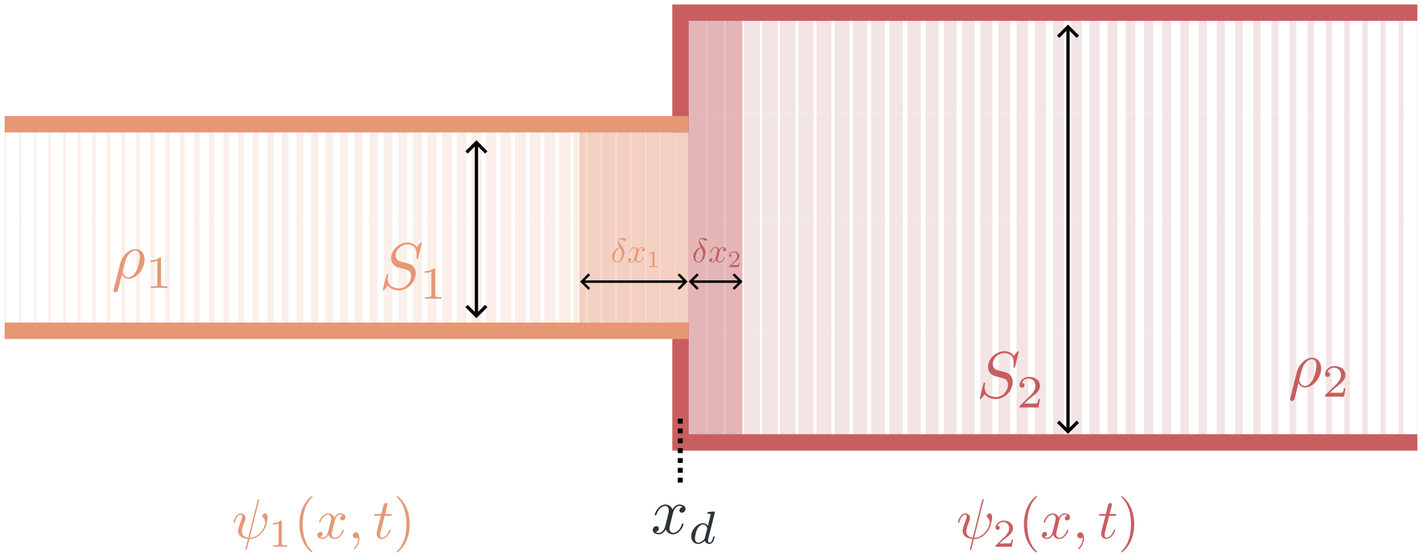
C.E. del tubo



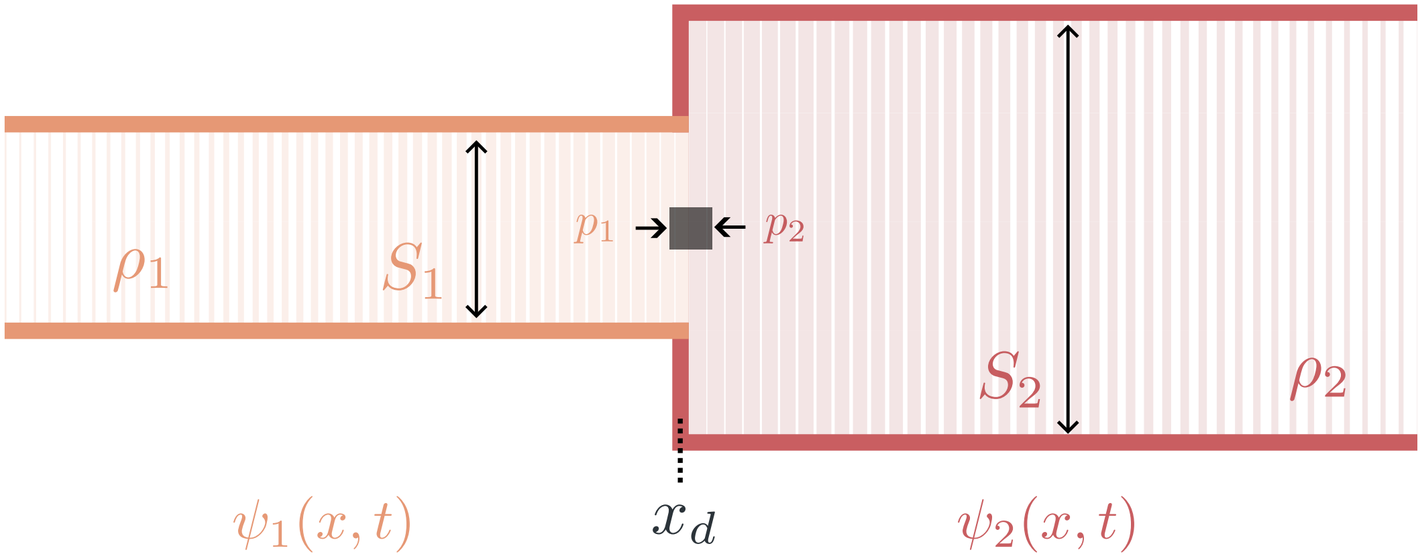
C.E. del tubo



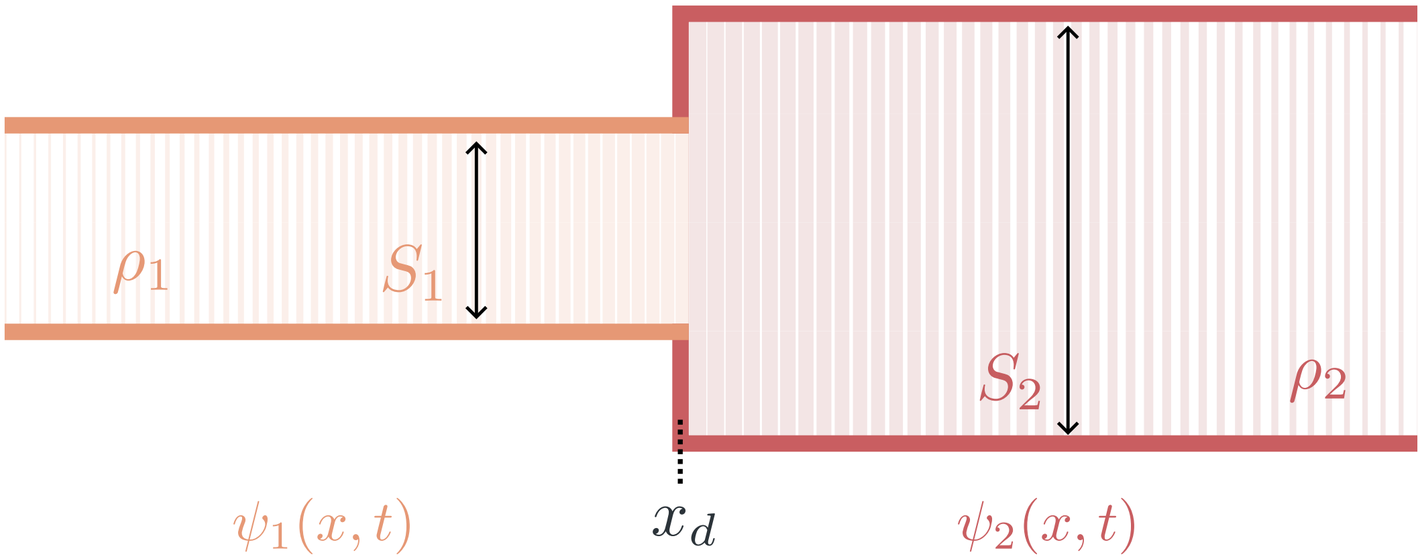
C.E. del tubo



C.E. del tubo



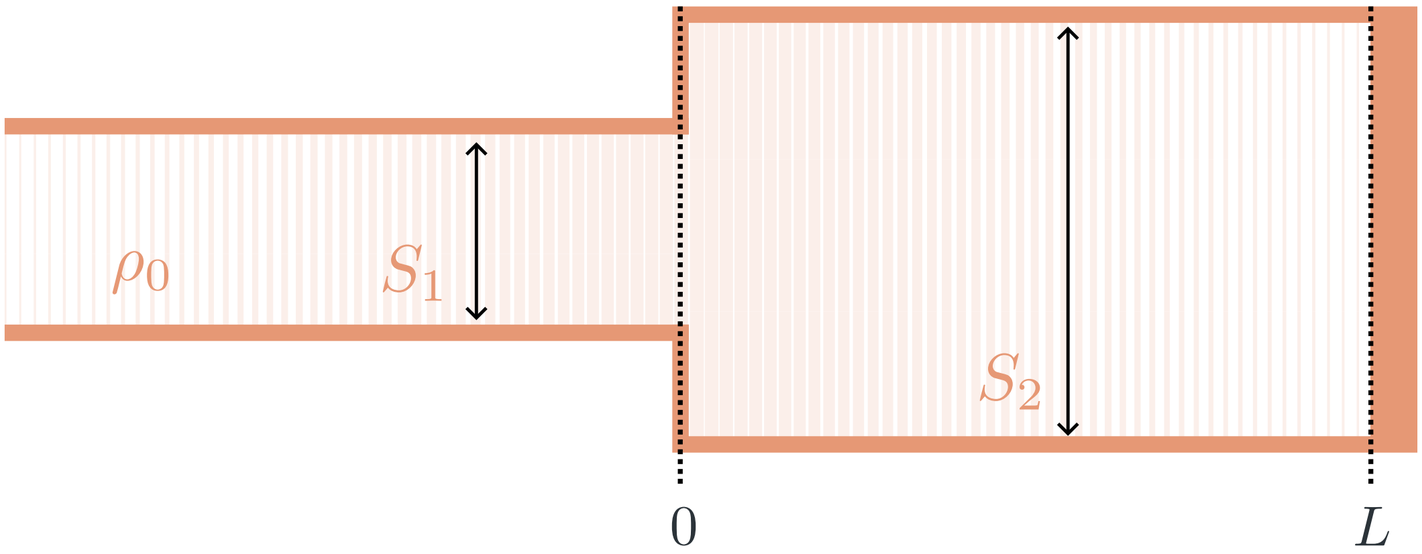
C.E. del tubo



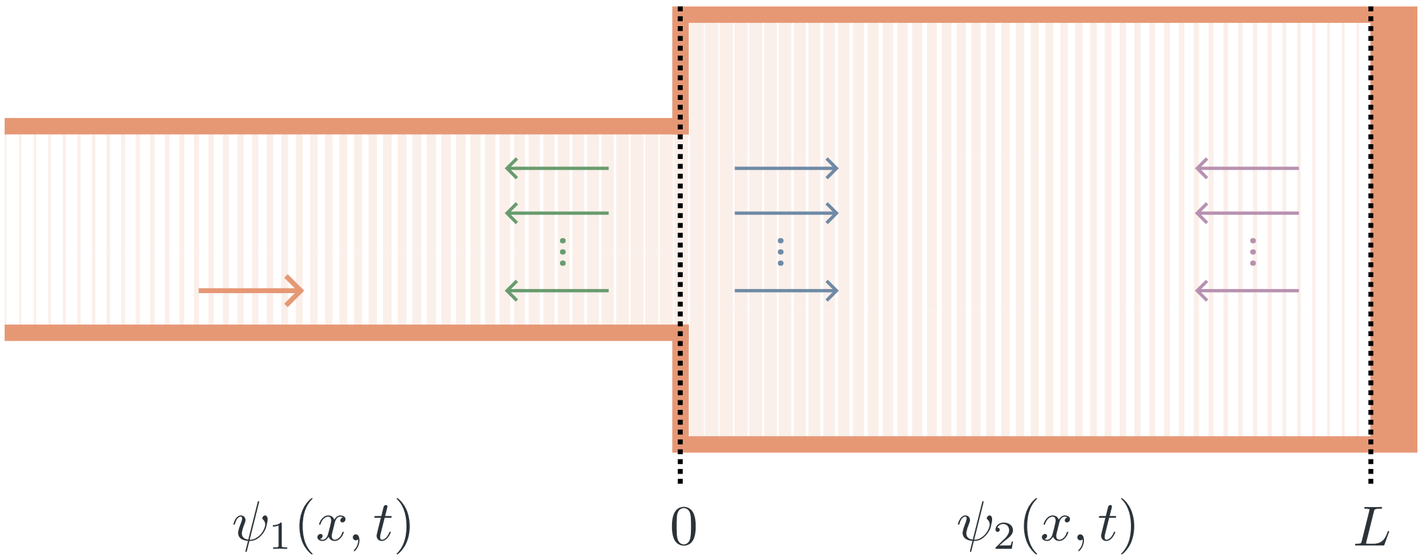
Conservación de la masa: $$\rho_1 S_1 \left.\frac{\partial \psi_1(x,t)}{\partial t}\right|_{x_d} = \rho_2 S_2 \left.\frac{\partial \psi_2(x,t)}{\partial t}\right|_{x_d}$$

Continuidad de las presiones: $$\gamma_1 \left.\frac{\partial \psi_1(x,t)}{\partial x}\right|_{x_d} = \gamma_2 \left.\frac{\partial \psi_2(x,t)}{\partial x}\right|_{x_d}$$

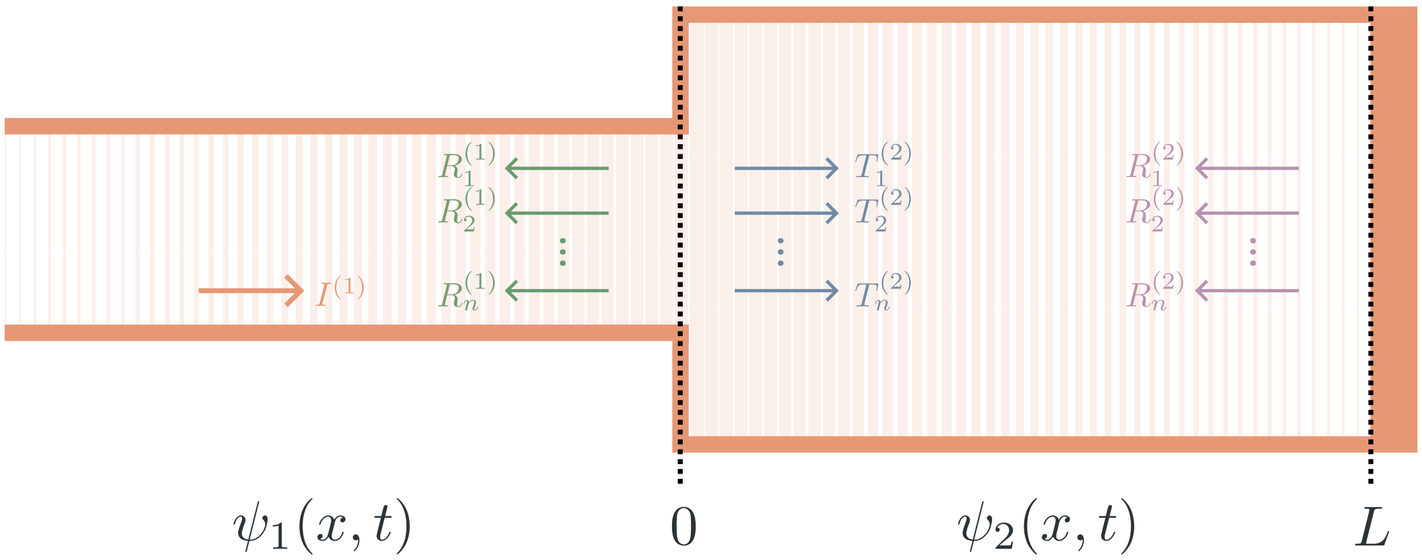
El tubo cerrado



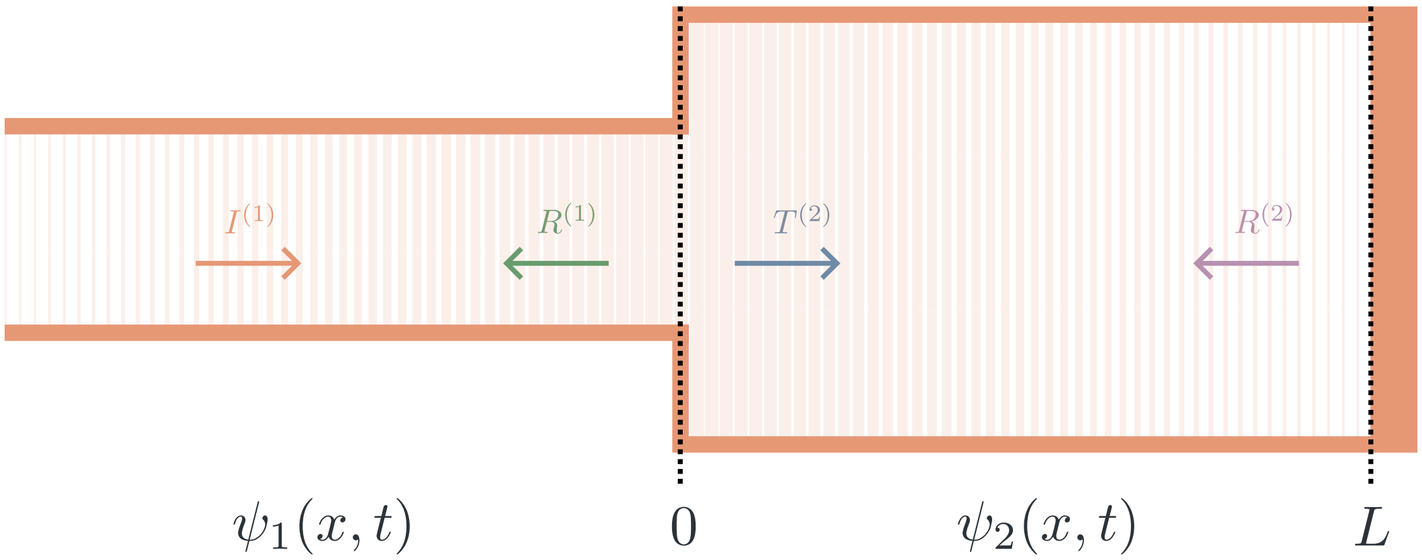
El tubo cerrado



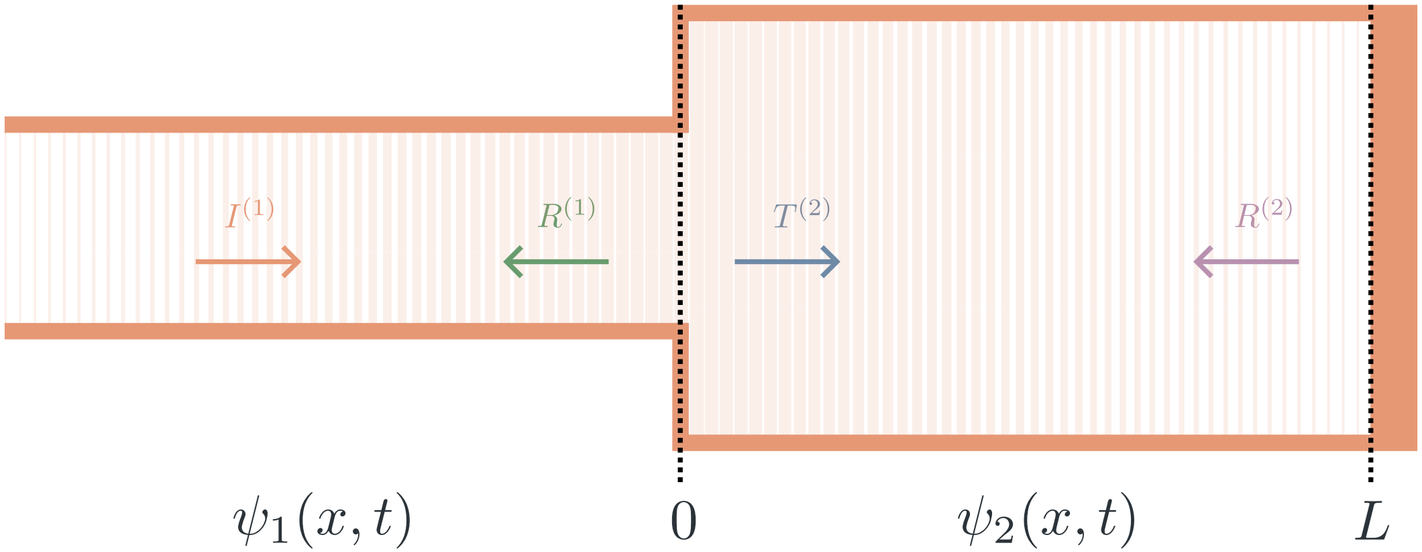
El tubo cerrado



El tubo cerrado



El tubo cerrado



$$\psi_1(x,t) = A_I^1\, e^{i(\omega t - kx)} + A_R^1\, e^{i(\omega t + kx)}$$

$$\psi_2(x,t) = A_T^2\, e^{i(\omega t - kx)} + A_R^2\, e^{i(\omega t + kx)}$$

Eso es todo