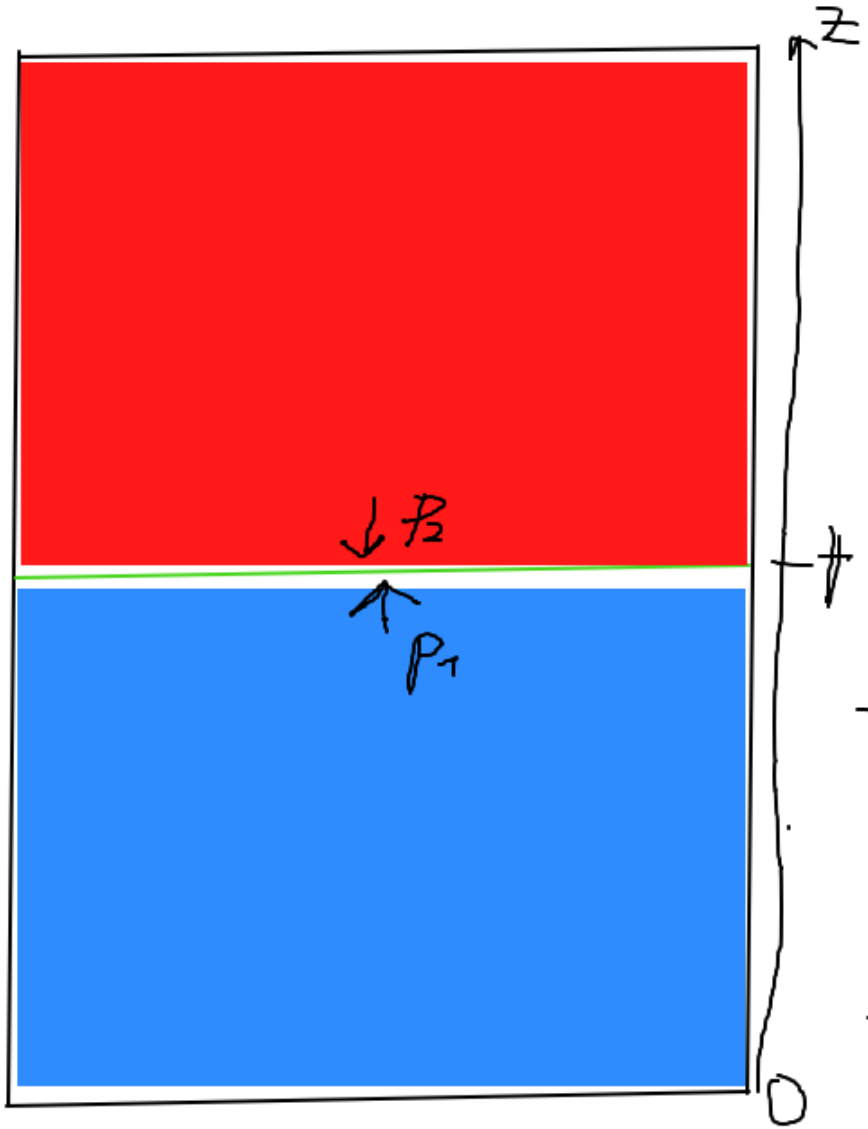

$$\frac{dp}{dz} = -g\rho \qquad p = R\rho$$

$$\frac{dp}{dz} = -\frac{g}{R}\rho$$

$$\frac{d\rho}{\rho} = -\frac{g}{R}dz \qquad \sigma = \frac{R}{g}$$

$$\rho(z) = \exp\left(-\frac{z}{\sigma} + \frac{z_0}{\sigma}\right)\cdot\rho_0$$

$$\rho_1(H) = \rho_0 \exp\left(-\frac{H}{G_1} + \frac{z_0}{G_1}\right) \qquad z_0 = 0$$

$$\rho_2(H) = \rho_0' \cdot \exp\left(-\frac{H}{G_2} + \frac{z_0'}{G_2}\right) \qquad z_0' = H$$

$$p_1 = p_2 \Rightarrow R_1 \cdot \rho_1(H) = R_2 \rho_2(H)$$

$$R_1 \rho_0 \cdot \exp\left(-\frac{H}{G_1}\right) = R_2 \rho_0'$$

$$\rho_0 = N \cdot m_1$$

$$\rho_0' = N \cdot m_2$$

$$R_1 m_1 \exp\left(-\frac{H}{G_1}\right) = R_2 m_2 \cdot 2$$

$$R_2 = \frac{R_1}{2} \exp\left(-\frac{H}{G_1}\right)$$