

Die Barometerformel

$$p(z) = p_0 \exp\left[-\frac{\rho_0}{p_0} g z\right]$$
$$= p_0 \exp\left[-\frac{mg}{kT} z\right]$$

Zahlenwerte:

Luft, $T = 288 \text{ K}$ (15°C)

$$p(z) = 1.013 \text{ bar} \exp\left(\frac{-z}{8432 \text{ m}}\right)$$

$$\underline{\underline{z_{1/2} = 5844 \text{ m}}}$$

