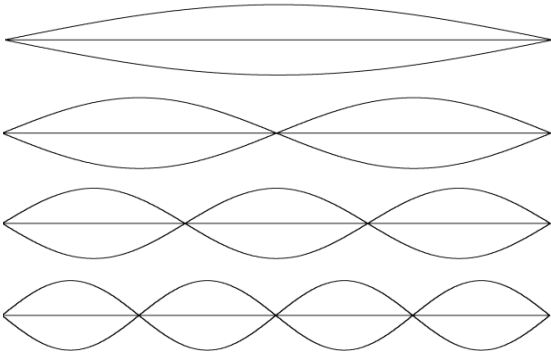


Svingningsbilleder

Svingende streng



$$\lambda_1 = \frac{2 \cdot L}{1}$$

$$f_1$$

$$\lambda_2 = \frac{2 \cdot L}{2}$$

$$f_2 = 2 \cdot f_1$$

$$\lambda_3 = \frac{2 \cdot L}{3}$$

$$f_3 = 3 \cdot f_1$$

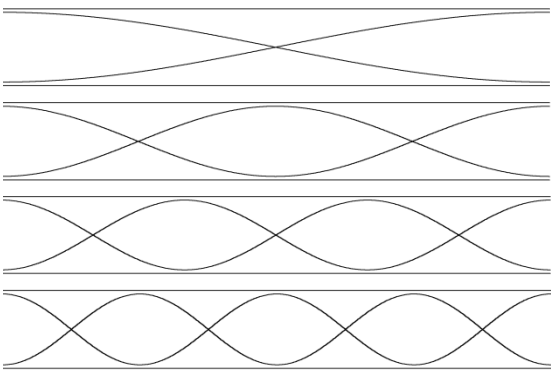
$$\lambda_4 = \frac{2 \cdot L}{4}$$

$$f_4 = 4 \cdot f_1$$

$$\lambda_n = \frac{2 \cdot L}{n}$$

$$f_n = n \cdot f_1$$

Helåbent rør



$$\lambda_1 = \frac{2 \cdot L}{1}$$

$$f_1$$

$$\lambda_2 = \frac{2 \cdot L}{2}$$

$$f_2 = 2 \cdot f_1$$

$$\lambda_3 = \frac{2 \cdot L}{3}$$

$$f_3 = 3 \cdot f_1$$

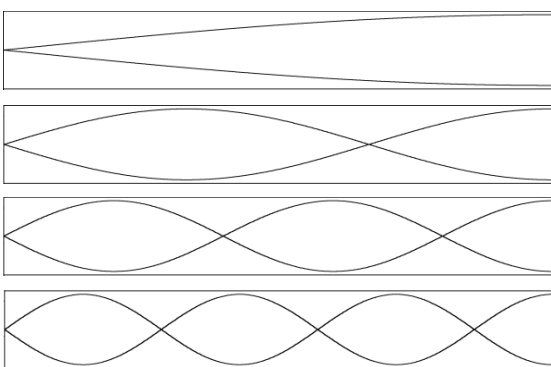
$$\lambda_4 = \frac{2 \cdot L}{4}$$

$$f_4 = 4 \cdot f_1$$

$$\lambda_n = \frac{2 \cdot L}{n}$$

$$f_n = n \cdot f_1$$

Halvåbent rør



$$\lambda_1 = \frac{4 \cdot L}{1}$$

$$f_1$$

$$\lambda_2 = \frac{4 \cdot L}{3}$$

$$f_2 = 3 \cdot f_1$$

$$\lambda_3 = \frac{4 \cdot L}{5}$$

$$f_3 = 5 \cdot f_1$$

$$\lambda_4 = \frac{4 \cdot L}{7}$$

$$f_4 = 7 \cdot f_1$$

$$\lambda_n = \frac{4 \cdot L}{2n-1}$$

$$f_n = (2n-1) \cdot f_1$$