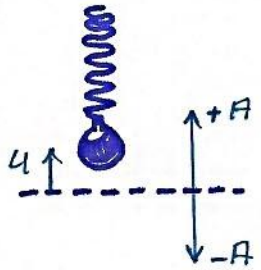


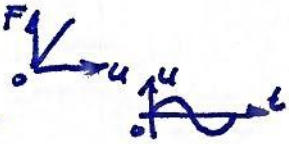

$f = 1/T$

toonhoogte ~ f

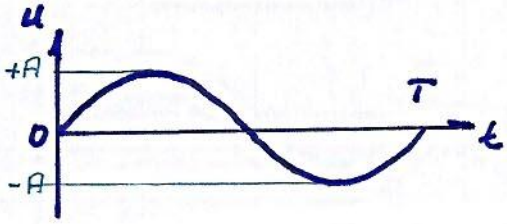
luidheid ~ A

* **Harmonische trilling (H.T.)** $\Leftrightarrow$ $\vec{F} = -c\vec{u}$

$u_{(t)}$ is sinus

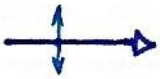



$T = 2\pi\sqrt{\frac{m}{c}}$ slinger: $T = 2\pi\sqrt{l/g}$



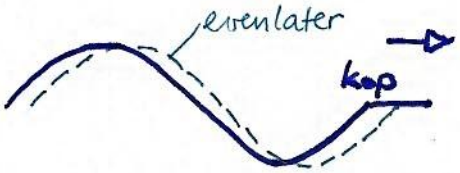

$u_{(t)} = A \sin 2\pi f t$

* **Golven**



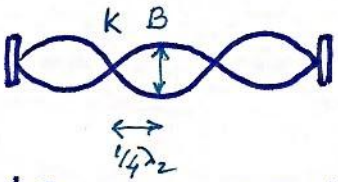
transversaal, bv licht

longitudinaal, bv geluid




$\lambda = v.T = \frac{c}{f}$ bij licht

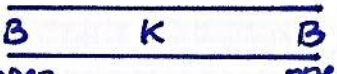
* **Snaarinstrument**



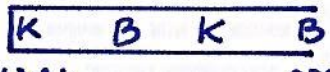

tweede boventoon $f_2$

$\frac{1}{2}\lambda_2$ past oneven keer op l

* **blaasinstrument**




$\frac{1}{2}\lambda$ past n keer




$\frac{1}{4}\lambda$ past oneven keer

* **Informatieoverdracht**

AM: amplitude A wordt gemoduleerd: storingsgevoelig

FM: frequentie f wordt gemoduleerd: