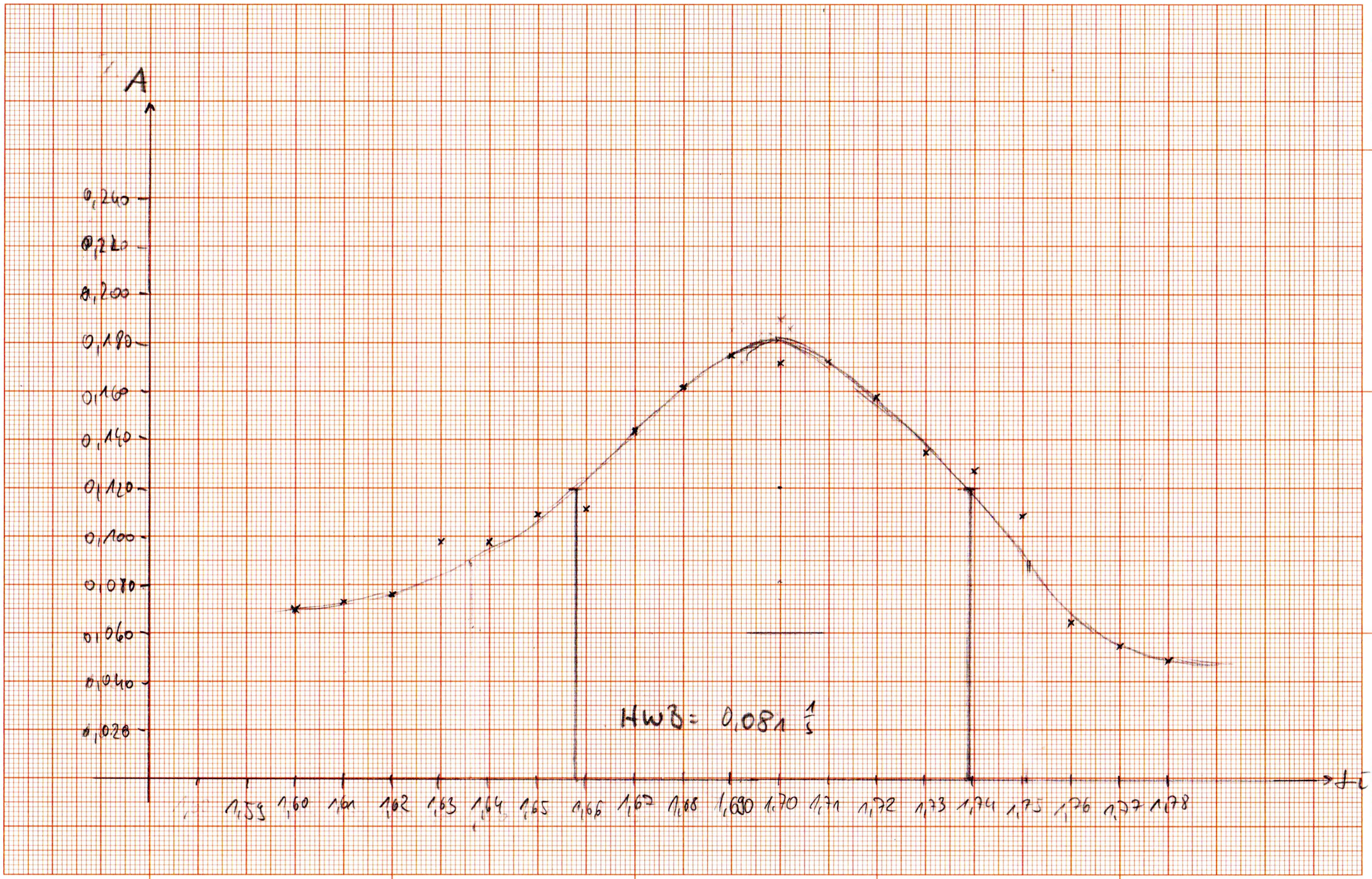
A
0,240
0,220
0,200
0,180
0,160
0,140
0,120
0,100
0,080
0,060
0,040
0,020
HWB = 0,081 1/s
1,59 1,60 1,61 1,62 1,63 1,64 1,65 1,66 1,67 1,68 1,690 1,70 1,71 1,72 1,73 1,74 1,75 1,76 1,77 1,78

M-10

Tutor: Marius Pfinz
Tobias Buchmann
Janosch Ehlers

1) $F = 0{,}670$

$x = 0{,}2\ m$

$f_0 = 1{,}690\ Hz \qquad \sigma = 0{,}010\ Hz$

$\omega_0 = 2\pi \cdot f_0 = 10{,}619\ \frac{1}{s}$

2) $f_A = 1{,}682\ Hz \qquad \sigma = 0{,}081\ Hz$

$\omega_A = 10{,}631\ \frac{1}{s}$

3) $\Rightarrow = 0{,}212$

$\delta = \frac{1}{B_c} = 4{,}72^{-1}\ s^{-1} \qquad m = 56{,}8\ g$

$\delta = \frac{B}{2m} \Rightarrow 4{,}72^{-1}\ s^{-1} = \frac{B}{2 \cdot 0{,}0568\ kg}$

~~$B = 1{,}865 \frac{kg}{s}$~~

4) ~~$\Delta f = 0{,}081 \frac{1}{s}$~~ $\Delta\omega = 2\pi f = 0{,}5088\ \frac{1}{s}$

~~$HWB = 1{,}0178$~~ $\delta = 0{,}258$

$\Delta f = 0{,}081\ Hz$

$\Delta\omega = 0{,}5089$

Fadenlänge $(0{,}0005)\ m$

Amperem. $= 0{,}001\ A$

Frequenz. $= 0{,}001\ Hz$