

$a(f)$  for  $I_1 = 40 \text{ mA}$

amplitude  
[nA]

4,5

4,0

3,5

3,0

2,5

2,0

1,5

1,0

0,5

0

300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000

$b(\omega \rightarrow 0) = 0,3$

$$b(\omega) = 4,25 \Rightarrow \frac{b(\omega)}{f^2} = 3,01$$

We estimate  $\Delta f_{1/2} = 25 \text{ Hz}$

$$H = \frac{2\pi}{4000} (f_2 - f_1) = 0,25$$

$$\Delta H = \frac{2\pi}{4000} \sqrt{(\Delta f_1)^2 + (\Delta f_2)^2} = 0,06$$

$f_1 = 1320 \text{ Hz}$   $f_2 = 2080 \text{ Hz}$

frequency  
[Hz]

