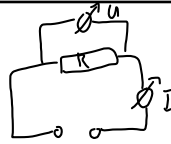


Name: Hendrik

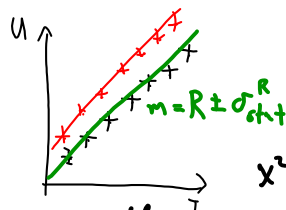
LA03-4

▷ Widerstand

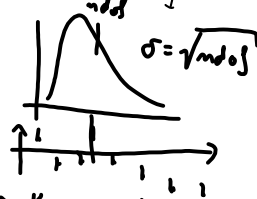
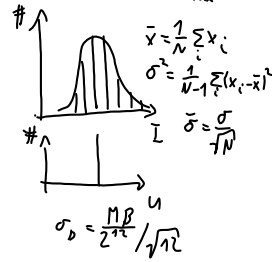


$$P < P_{max} = 2W$$

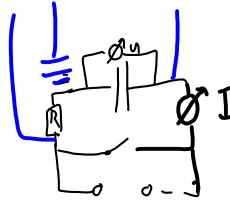
$$I < I_{max} = 180mA$$



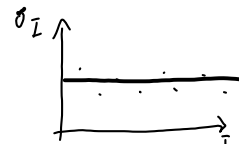
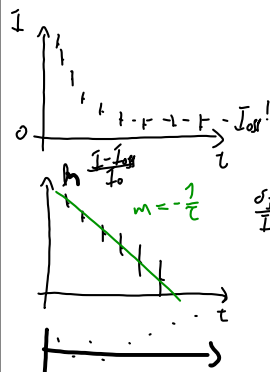
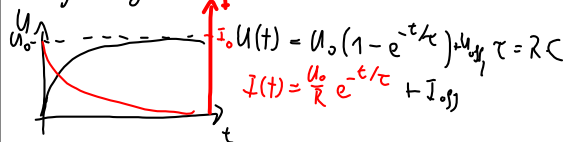
$$\chi^2 / \eta_{dof} \approx 1$$



▷ Kondensator

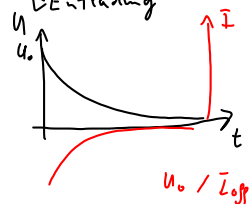


o Aufladung:



$$\sigma_I^{total} = (0.01 \cdot I_i + 0.005 I_{BE}) / \sqrt{3}$$

▷ Entladung



$$U(t) = U_0 e^{-t/\tau}$$

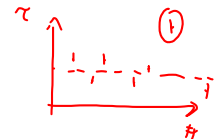
$$I(t) = -\frac{U_0}{R} e^{-t/\tau}$$

$$\tau = \frac{t_1 - t_2}{\ln \left(\frac{U_1 - U_{off}}{U_2 - U_{off}} \right)}$$

$$\text{mind. } 8 \times \tau$$


 ΔU $\Delta t / \sqrt{12}$ Alles berücksichtigt!

$$C = \frac{\tau}{R}$$



1. Digital WM
2. Oszy
3. Cariv
4. Widerstand