

(2)

Binomialverteilung

$$\sigma_x^2 = np(1-p)$$

(10.13) 5.115

$$\begin{aligned} \Rightarrow \sigma_x &= \sqrt{n \cdot p \cdot (1-p)} \\ &= \sqrt{n \cdot \frac{1}{n} \cdot (1 - \frac{1}{n})} \\ &= \sqrt{1 - \frac{1}{n}} \end{aligned}$$

Poissonverteilung

$$\sigma_x^2 = d^2$$

(10.19) 5.116

$$\begin{aligned} \sigma_x &= d \\ &= n \cdot p \\ &= n \cdot \frac{1}{n} = 1 \end{aligned}$$

