

## Übung 2 – 2.11.2. Statistische Gütefunktionsanalyse

### ÜBUNG 2 – 2.11.2. Statistische Gütefunktionsanalyse

- 1. **Beispiele 2.11.2.1 & 2.11.2.2**
  - 2.11.2.1: Gütefunktionsanalyse für den Parameter  $\mu$  einer Normalverteilung
  - 2.11.2.2: Gütefunktionsanalyse für den Parameter  $\sigma^2$  einer Normalverteilung
- 2. **Beispiele 2.11.2.3 & 2.11.2.4**
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  - 2.11.2.4: Gütefunktionsanalyse für den Parameter  $\sigma^2$  einer Normalverteilung

### Beispiel 2.11.2.1: Gütefunktionsanalyse für den Parameter $\mu$ einer Normalverteilung

Bestimmen Sie die Gütefunktion  $G(\mu)$  für die folgenden statistischen Tests (Angabe  $n=10$ ):

- 1. **Test 1:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)
- 2. **Test 2:**  $H_0: \mu = 0$  vs  $H_1: \mu \neq 0$  (zweiseitig)
- 3. **Test 3:**  $H_0: \mu = 0$  vs  $H_1: \mu < 0$  (einseitig)
- 4. **Test 4:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)
- 5. **Test 5:**  $H_0: \mu = 0$  vs  $H_1: \mu \neq 0$  (zweiseitig)
- 6. **Test 6:**  $H_0: \mu = 0$  vs  $H_1: \mu < 0$  (einseitig)
- 7. **Test 7:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)
- 8. **Test 8:**  $H_0: \mu = 0$  vs  $H_1: \mu \neq 0$  (zweiseitig)
- 9. **Test 9:**  $H_0: \mu = 0$  vs  $H_1: \mu < 0$  (einseitig)
- 10. **Test 10:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)

Bestimmen Sie die Gütefunktion  $G(\mu)$  für die folgenden statistischen Tests (Angabe  $n=10$ ):

- 1. **Test 1:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)
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- 9. **Test 9:**  $H_0: \mu = 0$  vs  $H_1: \mu < 0$  (einseitig)
- 10. **Test 10:**  $H_0: \mu = 0$  vs  $H_1: \mu > 0$  (einseitig)

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**Patti Shank**



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