

**Auswertung**

**Ergebnisse**

$$r = (33.3 \pm 1.0) \text{ m}$$

$$R = (87.3 \pm 0.5) \text{ m}$$

$$T = (3.1 \pm 0.2) \text{ W}$$

$P$	$L$
$(0.1 \pm 0.19) \text{ m}$	$(3.0 \pm 0.1) \text{ mHz}$
$(1.0 \pm 0.19) \text{ m}$	$(6.0 \pm 0.1) \text{ mHz}$
$(2.0 \pm 0.19) \text{ m}$	$(9.0 \pm 0.1) \text{ mHz}$
$(3.0 \pm 0.19) \text{ m}$	$(12.0 \pm 0.1) \text{ mHz}$

$$V = (0.381 \pm 0.008) \text{ l}$$

$$d = (28.0 \pm 5.0) \frac{1}{\text{kgmHz}^3}$$

**Fehlerformeln**

$$\sigma_V = \sqrt{\frac{\sigma_r^2}{R^2} + \frac{\sigma_R^2 r^2}{R^4}}$$

$$\sigma_d = \sqrt{\frac{R^2 \sigma_T^2}{T^4} + \frac{\sigma_R^2}{T^2}}$$