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$$L = 10 \log_{10} \frac{I}{I_0}$$

$$I_0 = 10^{-12} \frac{\text{W}}{\text{m}^2}$$

$$13 \text{ dB} = 10 \log_{10} \frac{I}{I_0}$$

$$10^{13} = \frac{I}{I_0}$$

$$I = 10^{13} \cdot I_0 = 10 \frac{\text{W}}{\text{m}^2}$$

$$I_1 r_1^2 = I_2 r_2^2$$

$$r_1^2 = \frac{I_2 r_2^2}{I_1} \Rightarrow r_1 = \sqrt{\frac{1,0 \times 10^{-2} \cdot 900}{10}} \text{ m} =$$

$$= 0,95 \text{ m}$$