$$A_{e} = \frac{\Lambda^2}{4\Pi} \cdot G_0$$
 - neman Λ, G_0

dBW u W

ERIP =
$$P_0 G_0$$

 $G_0 = \frac{ERIP}{P_0} = \frac{10^{\frac{51}{10}}}{55} = 2289$

$$Aet = \frac{\eta^2}{4\pi} \cdot Go = \frac{0.029^2 \cdot 2289}{4\pi} = 0.1532 \text{ m}^2$$

$$G_o = N_o \left(\frac{\pi}{\lambda} D_o\right)^2 / \Gamma$$

$$\sqrt{\frac{G_0}{\eta_0}} = \frac{1}{\lambda} \cdot D_0 / \cdot \frac{\lambda}{11}$$

$$D_0 = \frac{7}{17} \sqrt{\frac{60}{10}} = \frac{0.029}{10.7} \sqrt{\frac{2289}{0.7}} = 0.53 \text{ m}$$

$$G_P = N_P \left(\frac{\pi}{2} \cdot D_P\right)^2 = 0.9 \left(\frac{\pi}{0.029} \cdot 0.9\right)^2 = 8555$$

$$P_{p} = P_{0} G_{0} G_{p} \left(\frac{\lambda}{41TR}\right)^{2}$$

$$P_{\rho} = 55 \cdot 2289 \cdot 8555 \cdot \left(\frac{0.029}{417.36.40^{10}} \right)$$

$$P_p = -83.53$$
 dBm