- $R_{max} = \frac{1}{2}\sqrt{\lambda \cdot d}$ → 70 000 m

λ = 0,33

29,86 mm

$\lambda = \frac{c}{F} = \frac{300\ 000\ 000}{900\ 000\ 000} = 0,33...$

---

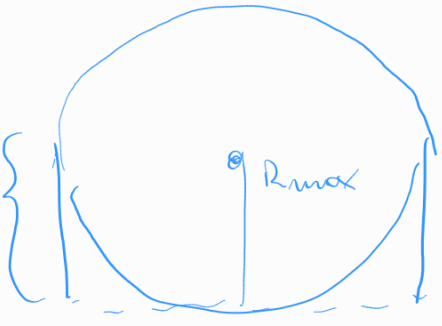
d = 50 km
F = 10 Ghz

$\frac{1}{2}\sqrt{\lambda \cdot 50\,000}$ ⇒ 1500

$\frac{300\ 000\ 000}{10\ 000\ 000\ 000} = 0,03$

Diamètre max

$R_{max} = 19,36\ m \cdot 2 = 38,72$



min R_{max} ⇒ ?

46% de 38,72 m
= 15,48 m

⇒ on peut se contenter de placer les antennes à Rmax

---

d = 65 km
F = 11 Ghz

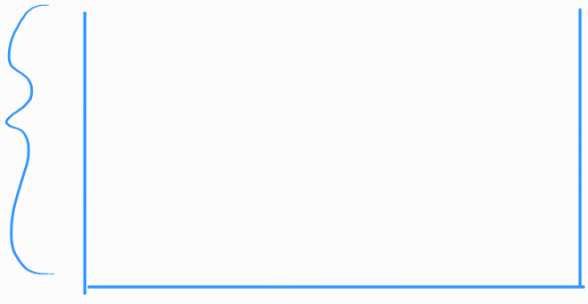
$\frac{1}{2}\sqrt{0,02727 \cdot 65\,000}$

1772,7272

Visibilité = 100%
Obstacle 19 m

$$\frac{300\ 000\ 000}{11\ 000\ 000\ 000} = 0,02727$$

$R_{max} = 21,05\ m$ + taille du stade
(± 40 m)



$19 + 21,05$

$= 40,05\ m$