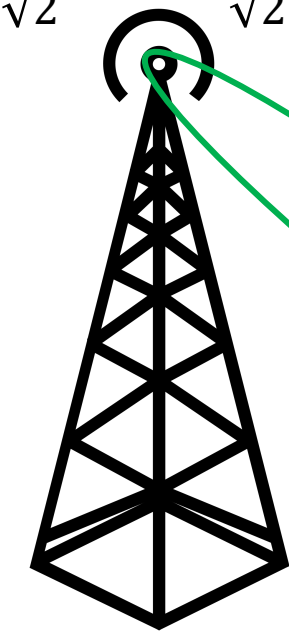
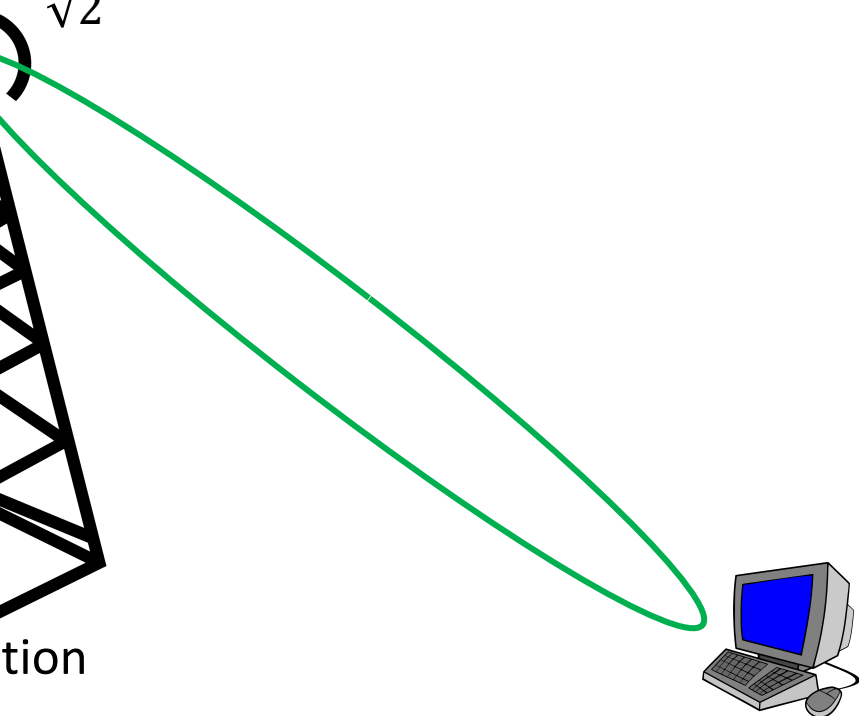


$$\mathbf{u}_1 = \frac{1}{\sqrt{2}} \mathbf{P}_1 \mathbf{x}_1 + \frac{1}{\sqrt{2}} \mathbf{P}_2 \mathbf{x}_2$$
$$\mathbf{u}_2 = \frac{1}{\sqrt{2}} \mathbf{P}_3 \mathbf{x}_1 + \frac{1}{\sqrt{2}} \mathbf{P}_4 \mathbf{x}_2$$



Base station



MIMO receiver