$$X = \mathbb{R}^2$$

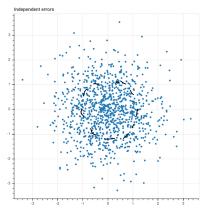
Measurements with randomly distributed enous of the of 2=1.

(X,,X2) e 12

$$P(tx) = \frac{1}{2\pi} \left\{ e^{-11 \times 11^2/2} dx, dx_2 \right\}$$

$$x = (x, x_2)$$

louds comes one ||X||<sup>2</sup>=A (incles.



How does IIxII= 1x12+x2 behave?

$$f: X \longrightarrow \mathbb{R} \qquad f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

$$\lim_{x \to \infty} f(x) = \sqrt{x_1^2 + x_2^2} = \|X\|^2$$

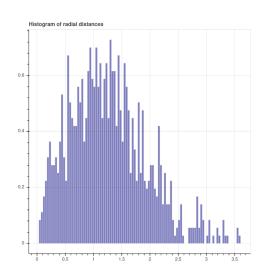
0=0 P=0

$$= \int_{\rho = 0^{2}/2}^{\rho = 0^{2}/2} d\rho$$

$$= -\int_{\rho = 0}^{\rho = 0^{2}/2} d\rho$$

$$= -\int_{\rho = 0}^{\rho = 0} du = 1 - e^{\rho^{2}/2} \int_{\rho = 0}^{\rho = 0} d\rho$$

$$= 1 - e^{-\rho^{2}/2}$$



X- gatupyu

