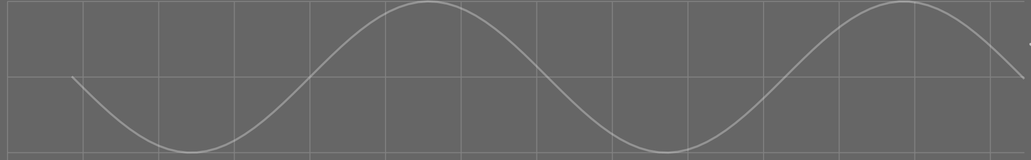
$$\hat{h} = \arg\min_{h\in\mathcal{H}} \left\{ L(h) = \sum_{i\in[1,N]} \frac{l(h,w_i)}{N} \right\}$$

$$(\mathbb{R}^d)^* \ni h_w(x) = \langle w, x \rangle$$

$$\sum_{i=1}^N \alpha_i \operatorname{sgn} \circ h_{w_i}, \sum_{i=1}^N \alpha_1 = 1$$

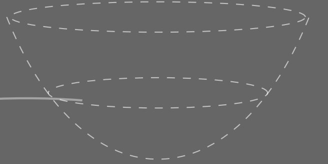
$$\bigotimes_{i=1}^N \mathcal{H}_{\alpha_i}$$

$$\mathbb{P}[B] = \int_\Omega (f_h * g)\, \mathbb{1}_B \, \mathrm{d}\mathbb{P}$$



$$\int_{w\in B[0,1]\subseteq\mathbb{R}^2} (w_x^2 + w_y^2)\, \mathrm{d}x\mathrm{d}y$$

$f(x) = \sin x$

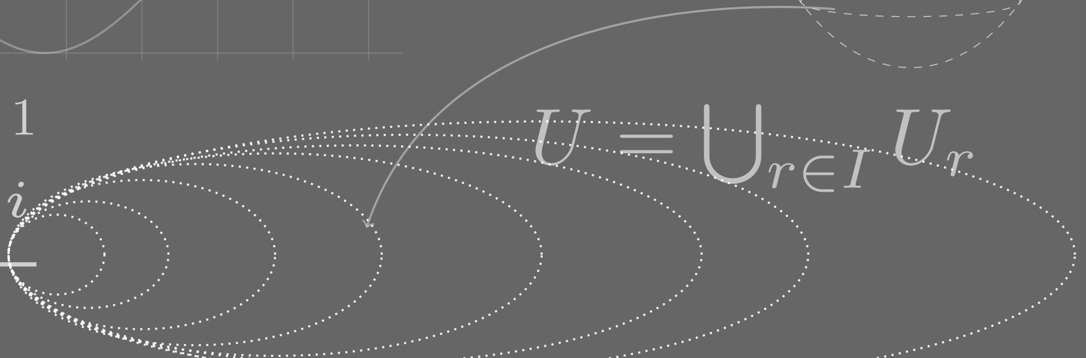


$$\overline{\left\{\sum_{B\in\mathcal{S}} \alpha_B \mathbb{1}_B\right\}} \xrightarrow{I} \overline{\mathbb{R}}$$

$$M_{n\times n}(\mathbb{R}) \ni X, \|X\| < 1$$

$$U = \bigcup_{r\in I} U_r$$

$$e^X = \lim_{N\to\infty} \sum_{i=0}^N \frac{X^i}{i!}$$



x_0

$$h_w^{-1}(\{x_0\}) \subseteq \mathcal{X}\times\mathcal{Y} \to \mathcal{V}_X$$