

$\mathfrak{h} \in \mathfrak{D}_0$  metric

$$\text{stet hull } \overleftarrow{\mathfrak{h}} = \frac{x \in \mathfrak{h}}{\bigwedge_{\varepsilon > 0} \bigvee_{y \in \mathfrak{h}} x|y \leq \varepsilon}$$

$$\overleftarrow{\mathfrak{h}} \subset \mathfrak{h}$$

$$x \in \mathfrak{h} \setminus \overleftarrow{\mathfrak{h}} \Rightarrow \bigvee_{\varepsilon > 0} \bigwedge_{y \in \mathfrak{h}} x|y > \varepsilon$$

$$x \in \overleftarrow{\mathfrak{h}} \Rightarrow \bigwedge_{\varepsilon > 0} \bigvee_{y \in \mathfrak{h}} x|y \leq \varepsilon$$

$$z \in \overleftarrow{\mathfrak{h}} \Rightarrow \bigwedge_{\varepsilon > 0} \bigvee_{y \in \mathfrak{h}} z|y \leq \varepsilon$$

$$\text{if } z \in \overleftarrow{\mathfrak{h}} \Rightarrow \bigvee_{y \in \mathfrak{h}} z|y \leq \varepsilon - x|z > 0 \Rightarrow \varepsilon < x|y \leq x|z + z|y \leq \varepsilon \text{ } \text{!}$$

$$\mathfrak{h} \setminus \overleftarrow{\mathfrak{h}} \subset \mathfrak{h} \Rightarrow \overleftarrow{\mathfrak{h}} \subset \mathfrak{h}$$

$$\overleftarrow{\mathfrak{h}} = \frac{x \in \mathfrak{h}}{\bigvee \mathfrak{h} \ni y_n \rightsquigarrow x}$$

$$\subset : \bigwedge_n \bigvee_{y_n \in \mathfrak{h}} x|y_n \leq \frac{1}{n} \Rightarrow \mathfrak{h} \ni y_n \rightsquigarrow x$$

$$\supset : \bigwedge_{\varepsilon > 0} \bigvee_{m \in \mathbb{N}} \bigwedge_{n \geq m} x|y_n \leq \varepsilon$$

$$\mathfrak{h} \subset I \subset \mathfrak{h} \Rightarrow \overline{\mathfrak{h}} \subset I$$

$$x \in \overline{\mathfrak{h}} \Rightarrow \bigvee A \supset \mathfrak{h} \ni y_n \rightsquigarrow x \Rightarrow x \in A \subset \mathfrak{h}$$

$$X \subset \mathfrak{h} \subset \mathfrak{h} \Rightarrow \overline{X} \subset \overline{\mathfrak{h}} \subset \mathfrak{h}$$

$$X \subset \mathfrak{h} \subset \overline{\mathfrak{h}} \subset \mathfrak{h} \Rightarrow \overline{X} \subset \overline{\mathfrak{h}}$$

$$\overline{\overline{\mathfrak{h}}} \underset{\text{idem}}{=} \overline{\mathfrak{h}}$$

$$\overline{\mathfrak{h}} \subset \mathfrak{h} \Rightarrow \overline{\mathfrak{h}} \subset \overline{\overline{\mathfrak{h}}} \subset \overline{\mathfrak{h}}$$

$$X \underset{\text{full}}{\subset} \mathfrak{h} \subset \mathfrak{h} \Leftrightarrow \text{hull } \overline{X} \supset \mathfrak{h} \Leftrightarrow \bigwedge_y \bigvee X \ni x_n \rightsquigarrow y$$

$$X \underset{\text{hull}}{\subset} \mathfrak{h} \underset{\text{hull}}{\subset} Z \subset \mathfrak{h} \underset{\text{trans}}{\Rightarrow} X \underset{\text{hull}}{\subset} Z \subset \mathfrak{h}$$

$$\bigwedge_z \bigwedge_{\varepsilon} \bigvee_y^{Z > 0 \mathfrak{h}} y|z \leq \frac{\varepsilon}{2} \Rightarrow \bigvee_x^X x|y \leq \frac{\varepsilon}{2} \Rightarrow x|z \leq x|y + y|z \leq \varepsilon$$