

$$\mathbb{J}:\mathbb{X}:\mathbb{m} \in \frac{n}{0}\mathbb{K} = \frac{n}{0}\mathbb{K} \cap \mathbb{K} \text{ voll}$$

$$\overline{\mathbb{J}\times\mathbb{J}} \leq \overline{\mathbb{J}^m\mathbb{J}}$$

$$\overline{e} = 1$$

$$\mathbb{J} \xleftarrow[\text{stet}]{m} \mathbb{J}\mathbb{X}\mathbb{J}$$

$$\bigwedge_{\mathbb{J} \in \mathbb{J}} \bigwedge_{\varepsilon > 0} \bigvee_{\delta > 0} \delta \delta + \overline{\mathbb{J}^m + \mathbb{J}^m} \leq \varepsilon \Rightarrow \bigwedge_{\overline{\mathbb{J} - \mathbb{J}} \leq \delta} \overline{\mathbb{J}\times\mathbb{J} - \mathbb{J}\times\mathbb{J}}$$

$$= \overline{\mathbb{J} - \mathbb{J} \times \mathbb{J} - \mathbb{J} + \mathbb{J} \times \mathbb{J} - \mathbb{J} + \mathbb{J} - \mathbb{J} \times \mathbb{J}} \leq \overline{\mathbb{J} - \mathbb{J}} \overline{\mathbb{J} - \mathbb{J}} + \overline{\mathbb{J}^m \mathbb{J} - \mathbb{J}^m} + \overline{\mathbb{J} - \mathbb{J}} \overline{\mathbb{J}^m} \leq \delta \delta + \overline{\mathbb{J}^m + \mathbb{J}^m} \leq \varepsilon$$

$\mathbb{J}\times\mathbb{J} \mapsto \mathbb{J}:\mathbb{J}$ not u-stet

$$\overline{\mathbb{J}^n}^{1/n} \rightsquigarrow \varrho = \bigwedge_{n \geq 1} \overline{\mathbb{J}^n}^{1/n} \geq 0 \text{ spec rad}$$

$$\bigwedge_{\varepsilon > 0} \bigvee_{q \geq 1} \overline{\mathbb{J}^q}^{1/q} < \varrho + \varepsilon \Rightarrow \bigwedge_{n \geq 1} \bigvee_{p_n \geq 1} \bigvee_{r_n \in q} n = p_n q + r_n \Rightarrow 1 = \frac{p_n}{n} q + \frac{r_n}{n} \Rightarrow \frac{r_n}{n} \rightsquigarrow 0 \Rightarrow \frac{p_n}{n} \rightsquigarrow \frac{1}{q}$$

$$\Rightarrow \varrho \leq \overline{\mathbb{J}^n}^{1/n} = \overline{\mathbb{J}^{p_n q} \mathbb{J}^{r_n}}^{1/n} \leq \overline{\mathbb{J}^q}^{p_n/n} \overline{\mathbb{J}^{r_n}}^{r_n/n} \rightsquigarrow \overline{\mathbb{J}^q}^{1/q} < \varrho + \varepsilon \Rightarrow \bigwedge_{n \geq n_0} \varrho \leq \overline{\mathbb{J}^n}^{1/n} \leq \varrho + \varepsilon$$

$$(\mathbb{J}:a) \times (\mathbb{J}:\alpha) = (\mathbb{J}\times\mathbb{J} + \mathbb{J}\alpha + \mathbb{J}a:\alpha)$$

$$\overline{\mathbb{J}:a} = \overline{\mathbb{J}} + \overline{a}$$

$$\overline{(\mathbb{J}:a) \times (\mathbb{J}:\alpha)} = \overline{\mathbb{J}\times\mathbb{J} + \mathbb{J}\alpha + \mathbb{J}a} + \overline{a\alpha} \leq \overline{\mathbb{J}\times\mathbb{J}} + \overline{\mathbb{J}\alpha} + \overline{\mathbb{J}a} + \overline{a\alpha}$$

$$\leq \overline{\mathbb{J}} \overline{\mathbb{J}} + \overline{\mathbb{J}} \overline{\alpha} + \overline{\mathbb{J}} \overline{a} + \overline{a} \overline{\alpha} = \overline{\mathbb{J}} + \overline{a} \overline{\mathbb{J}} + \overline{\alpha} = \overline{\mathbb{J}:a} \overline{\mathbb{J}:\alpha}$$