

$$r \notin \mathbb{Z}_p \nexists s: x = p^n \frac{r}{s} \in \mathbb{Q} \xrightarrow{\text{p}(\cdot)} \mathbb{R}: \text{p}\overline{x} = p^{-n}$$

$$\text{p}\overline{xy} = \text{p}\overline{x} \text{p}\overline{y}$$

$$\text{p}\overline{x+y} \leq \max \text{p}\overline{x} : \text{p}\overline{y} \text{ Frobenius}$$

$$\mathbb{Q}_p = \text{p}\overline{\mathbb{Q}} = \frac{\mathbb{Q} \ni x_n \underset{p}{\rightsquigarrow}}{\mathbb{Q} \ni x_n \underset{p}{\rightsquigarrow} 0}$$

$$\mathbb{Q}_p \xrightarrow[\text{stet}]{\text{p}(\cdot)} \mathbb{R}$$