

$$\mathbb{1}_{\mathbb{Q}}^{\pm} = \mathbb{1}_{\mathbb{N}}^{\pm} \rhd \mathcal{I}_Q$$

$$\uparrow j$$

$$\mathbb{1}_{\mathbb{N}}^{\pm}$$

$$\uparrow i$$

$$\mathcal{I}_Q$$

$$\mathbb{1}_{\mathbb{Q}}^{\pm} = \mathbb{1}_{\mathbb{Q}}^{\pm} \times \mathbb{1}_{\mathbb{Q}}^{\mp}$$

$$1 \in \mathbb{1}_{\pm} \text{ mod } \mathbb{1}_{\pm}$$

$$\mathbb{F}_{\mathbb{Q}}^{\pm} = \mathbb{F}_{\mathbb{N}}^{\pm} \rhd \mathcal{I}_Q \quad \mathbb{F}_{\mathbb{Q}}^{\pm} = \mathbb{F}_{\mathbb{N}}^{\pm} \rhd \mathcal{I}_Q$$

$$\uparrow j$$

$$\mathbb{F}_{\mathbb{N}}^{\pm}$$

$$\uparrow i$$

$$\mathcal{I}_Q$$

$$\uparrow j$$

$$\mathbb{F}_{\mathbb{N}}^{\pm}$$

$$\uparrow i$$

$$\mathcal{I}_Q$$

$$\mathbb{F}_{\mathbb{Q}}^{\pm} = \mathbb{F}_{\mathbb{Q}}^{\pm} \times \mathbb{F}_{\mathbb{Q}}^{\mp}$$

$$\mathbb{F}_{\mathbb{Q}}^{\pm} = \mathbb{F}_{\mathbb{Q}}^{\pm} \times \mathbb{F}_{\mathbb{Q}}^{\mp}$$

$$1 \in \mathbb{1}_{\mathbb{1}} \text{ mod } \mathbb{1}$$