

$$\mathcal{U}_{p:q}^{\mathbb{K}} \subset \mathcal{U}_{p:q}^{\mathbb{K}} \times \mathcal{U}_{p:q}^{\mathbb{K}} \text{ unit groups}$$

$${}^{p:q}\mathbb{R}_{p:q}^{\mathbb{U}} \times {}^{p:q}\mathbb{R}_{p:q}^{\mathbb{U}} / {}^{p:q}\mathbb{R}_{p:q}^{\mathbb{U}}$$

$${}^{p:q}\mathbb{C}_{p:q}^{\mathbb{U}} \times {}^{p:q}\mathbb{C}_{p:q}^{\mathbb{U}} / {}^{p:q}\mathbb{C}_{p:q}^{\mathbb{U}}$$

$${}^{p:q}\mathbb{H}_{p:q}^{\mathbb{U}} \times {}^{p:q}\mathbb{H}_{p:q}^{\mathbb{U}} / {}^{p:q}\mathbb{H}_{p:q}^{\mathbb{U}}$$

$${}^n\mathbb{K}_n^{\mathbb{U}} \subset {}^n\mathbb{K}_n^{\mathbb{U}} \times {}^n\mathbb{K}_n^{\mathbb{U}}$$